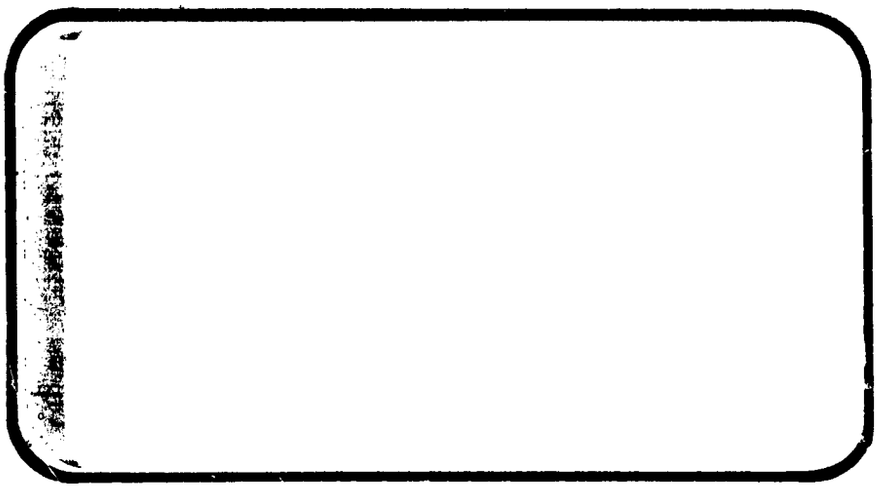
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



NASA-CR-128794-vol-7) RESULTS OF T...
DA12 AND IA5 IN THE AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNELS ON AN 0.030
SCALE MODEL OF THE SPACE (Chrysler
Corp.) 906 p HC $47.50
CSCL 22...

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

November, 1973

DMS-DR-2032
NASA CR-128,794

VOLUME 7 OF 18

RESULTS OF TESTS OA12 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

By

R. H. Spangler
Rockwell International

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
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New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Numbers:	ARC 11-70((A) ARC 9(-70((B) ARC 8(-70((C)
NASA Series Numbers:	IA9A, B, C and OAL A, C
Test Date:	April - 17 May, 197(

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Chrysler Corporation Space Division Assumes no responsibility for the data presented herein other than its display characteristics.

RESULTS OF TESTS OA1 AND IA9 IN THE AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE VEHICLE IA TO DETERMINE AERODYNAMIC LOADS

By

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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OA12A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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External Tank	[illegible]
External Tank Base	[illegible]

INDEX OF TABULATED PRESSURE DATA (Continued)

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COMPONENT	
OMS Pod Outside	
Lower Wing Surface	
Upper Wing Surface	
Left Vertical Tail Surface	
Right Vertical Tail Surface	
APU Inlet	

[illegible] Delivery [illegible] May 17, 197[illegible] as follows:

IA0A	[illegible]	[illegible]
OA1	[illegible]	[illegible]
IA0B	[illegible]	[illegible]
OA1 C	[illegible]	[illegible]
IA0C	[illegible]	[illegible]

The testing was conducted in [illegible] Trisonic Wind Tunnels to obtain a Mach number [illegible] for the aerodynamic loads data were obtained for the second and [illegible] configurations. The effects of control surface deflections were [illegible] tested.

This report consists of 3 volumes and [illegible] volumes of pressure data for a total of 10 volumes arranged in the following manner:

VOLUME NO.	CONTENTS
1	IA0A force data
2	IA0B and IA0C force data
	OA1 A and OA1 C force data
3	IA0A plotted pressure data
	IA0B and IA0C plotted pressure data
4	OA1 A and OA1 C plotted pressure data
5	IA0A tabulated pressure data (a) orbiter fuselage (b) orbiter base (c) upper MPT nozzle
6	IA0A tabulated pressure data (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
7	[illegible] tabulated pressure data (a) upper wing surface (b) [illegible] vertical tail surface (c) [illegible] vertical tail surface (d) SSME inlet (e) SRB booster base
10	IA0C tabulated pressure data (a) SRB booster (b) external tank (c) external tank base

12 IA9B tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside
- (g) lower wing surface

1 IA9B tabulated pressure data
- (a) upper wing surface
- (b) left vertical tail surface
- (c) right vertical tail surface
- (d) APU inlet
- (e) SRM booster base
- (f) SRM booster
- (g) external tank
- (h) external tank base

13 IA9C tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

14 IA9C tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surface
- (d) right vertical tail surface

15 IA9C tabulated pressure data
- (a) APU inlet
- (b) SRM booster base
- (c) SRM booster
- (d) external tank
- (e) external tank base

16 OA102A tabulated pressure data
- (a) orbiter fuselage
- (b) orbiter base
- (c) upper MPS nozzle
- (d) OMS nozzle
- (e) body flap
- (f) OMS pod outside

17 OA1A tabulated pressure data
- (a) lower wing surface
- (b) upper wing surface
- (c) left vertical tail surface
- (d) right vertical tail surface
- (e) APU inlet

15 OA2C tabulated pressure data
All components

NOMENCLATURE

SYMBOL	COMPUTER SYMBOL	DEFINITION
[illegible]		[illegible]; m/sec, ft/sec
C_p		pressure coefficient; $(p_l - p_\infty)/q$
M	[illegible]	[illegible]; N/m, lb/ft
p		pressure; N/m^2, psf
q	QINF, Q(NCF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, slugs/ft^3

Reference & C.G. Definitions

Ab		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} or $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS:

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_{t_i}$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
ℓ_B	LB	length of orbiter body; in.
ℓ_T	LT	length of external tank; in.
ℓ_s	LS	length of SRM booster; in.
ℓ_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
ℓ_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
b/2	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

SYMBOL	PLOT SYMBOL	DEFINITION
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/ℓ_B	X/LB	longitudinal position/orbiter body length.
x/ℓ_T	X/LT	longitudinal position/external tank length.
x/ℓ_S	X/LS	longitudinal position/booster length.
x/ℓ_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/ℓ_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
y/b/2	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 1.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symetrically to the left side, but did not contain a balance. The orbiter configuration, designated as OA, consisted of $B_1OC_5D_7W_8T_7V_5R_5M_3F_4$.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OA12C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally, (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ±10 psid, ±12.5 psid and ±15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL[illegible]) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.

2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.

3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.

4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.

2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 37, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
↓	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
↓	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
↓	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 404, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6.

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$S_{Ref.}$ = 2.461 ft^2	Orbiter reference area
$\ell_{Ref.}$ = 39.840 in.	Orbiter reference length

Base Areas (Model Scale)

A_{BOI} = 0.1905 Ft^2	Orbiter base area, integrated
A_{BOA} = 0.2360	Orbiter base area, sting mounted
A_{BMPSU} = 0.0417	Orbiter upper MPS base area
A_{BMPSL} = 0.0853	Orbiter lower MPS base area
A_{BACPS} = 0.0310	Orbiter ACPS base area on OMS pod
A_{BOMS} = 0.0231	Orbiter OMS nozzle base area
A_{BPOD} = 0.0257	Orbiter OMS pod base area
A_{CO} = 0.0611	Orbiter sting cavity base area
A_{BNOZ} = 0.0564	SRM nozzle base area
A_{BSKIRT} = 0.1729	SRM nozzle skirt base area
A_{BETI} = 0.3189	ET Base area
A_{CET} = 0.1964	ET Sting cavity base area

TEST : OA12 / EA9 | PAGE 1 of | DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0×10^6	540	120° Nom.
0.9	4.5	800	↓
1.1	4.0	810	↓
1.25	3.0	630	↓
1.4	3.0	650	↓
1.55	2.8	600	↓
2.0	2.3	490	↓
2.5	1.5	300	↓
3.0	2.0	350	↓
3.5	2.0	300	↓

BALANCE UTILIZED: FIVE (5) TASK CORPORATION BALANCES WITH CAPACITIES AS FOLLOWS:

	Isolated Orbiter MK IA	Isolated Orbiter MK IB	Integrated Vehicle ORB MK III	Integrated Vehicle SRB MK II	Integrated Vehicle ET MK II B
N_F	3000	3000	2400	1250	4000
N_A	3000	3000	2400	1250	4000
Y_F	1500	1500	1200	500	2000
Y_A	1500	1500	1200	500	2000
X	600	600	1500	200	1000
R	4000	4000	4000	1000	10,000
512"	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK IA, 2.5IN DIA. BALANCE WAS DAMAGED AFTER RUN 319. THE MARK IB WAS SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

TEST: ARC 11-707 (A)

DATA SET RUN NUMBER COLLATION SUMMARY

DATE: 4 [illegible]

DATA SET RUN NUMBERS	CONFIGURATION	SCHD. α	SCHD. β	ε_e	δ_R	ε_{FR}	L_o	NO. OF RUNS	MACH NUMBERS AND ALTITUDES IN THOUSANDS OF FEET FOR EACH	0.6	0.9	1.1	1.25	1.4
REMARKS	$T_A + S_B - T_B$	A	0	0	0	0	1.5	1		3	5	6	[illegible]	
02	~	A	0	~	~	~	2.5	[illegible]		8	18	28	[illegible]	48
03		-8	B				~	4		9	19	29	[illegible]	
[illegible]		-6	~					~		10	[illegible]	[illegible]	[illegible]	
[illegible]		-4								11	21	31	41	
06		-2								12	22	32	42	
07		0						5		13	23	33	43	49
08		2						4		14	24	34	44	
09		4						~		15	25	35	45	
10		6								16	26	36	46	
11		8								17	[illegible]	[illegible]	[illegible]	
12		-8	C		-5			2				97	102	
13		-6	~		~			~				115	111	
14		-4										98	103	
15		-2										[illegible]	[illegible]	
16		0										[illegible]	104	
17		2										116	112	
18		4										120	105	

7 13 19 25 31 37 43 49

α OR β SCHEDULES: COEFFICIENTS

α_A = -8, -6, -4, -2, 0, 2, 4, 6, 8

α_B = -8, -6, -4, -2, 0, 2, 4, 6, 8

β_C = -8, -6, [illegible]

TEST: LRC-[illegible]-707[illegible]

DATA SET RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	SCHD. δ_E	SCHD. δ_R	SCHD. δ_{FR}	SCHD. C_o	NO. OF PTS	MACH NUMBER 0.6	MACH NUMBER 0.9	MACH NUMBER 1.1	MACH NUMBER 1.25
EBMK19	$\bar{X}_{22}$ - S_3 + T_7	5	C	0	-5	0	0.5	2			1.5	114
20		5			-5						101	150
21		-8			-10						60	69
22		-6									61	70
23		-4									62	71
24		-2									63	12
25		0									64	73
26		2									65	74
27		4									66	[illegible]
28		6									67	76
29		8									68	[illegible]
30		-8			-15						78	[illegible]
31		-6			[illegible]						79	[illegible]
32		-4									[illegible]	[illegible]
33		-2									81	7
34		0									82	[illegible]
35		2									83	80
36		4									84	71

COEFFICIENTS

α [illegible] β

SHEET [illegible]

TEST: ARC 11-7C7 'E'

DATA SET RUN NUMBER COLLATION SUMMARY

DATE

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS FOR ALTERNATE [illegible] 0.6	0.9	1.1	1.25
RBMx37	$\phi_{24} + S_3 + T_3$	6	C	0	-15	0	0.5	2			85	95
38		8			-15						87	96
39		-8			-5						50	55
40		-4									51	56
41		0									52	57
42		4									53	58
43		8									54	59
44		A	?		0		-1.2	4	107	108	109	110

1 7 13 19 25 31 37 43 49 55 75 76

COEFFICENTS

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 97-707 (IA9B) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	i_o	δ_{RF}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	2.0
R50x 01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0.5	0	2	341	351
02		B	B						342	360
03		6							343	359
04		4							344	358
05		2							345	357
06		0							346	356
07		-2							347	355
08		-4							348	354
09		-6							349	353
10		-8							350	352
11		-8	C		-15				361	367
12		-4							362	368
13		0							363	369
14		4							364	370
15		8							365	371
16		8							366	372
17		-8			-10				373	379
18		-4			-10				374	380

RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 73 78

α OR β SCHEDULES — COEFFICIENTS

α(A) = -8, -6, -4, -2, 0, 2, 4, 6, 8

β(B) = 8, 6, 4, -4, -6, -8

β(C) = 8, 6, 4, 0, -4, -6, -8

TABLE II. CONTINUED

TEST: AEC 97-707 (TAPE)

DATA SET RUN NUMBER COLLATION SUMMARY

DATE 5-17-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	PARAMETERS/VALUES δR	PARAMETERS/VALUES C_0	PARAMETERS/VALUES δ_{EF}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.55	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.0	TEST RUN NUMBERS
PBO.19	$\phi_{CA} + S_E + T_g$	0	C	0	-10	0.5	0	2	375	381	
20		4							376	382	
21		6							377	383	
22		8							378	384	
23		-8			+15				385	391	
24		-4							386	392	
25		0							387	393	
26		4							388	394	
27		6							389	395	
28		8							390	396	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR(1) IDVAR(2) NDV

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) — DATA SET RUN NUMBER COLLATION SUMMARY — DATE 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.0	3.5
RBNx01	$\emptyset_{2A} + S_3 + T_9$	A	0	0	0	0	0.5	3	240	230	220
02		-8	B						241	231	221
03		-6							242	232	222
04		-4							243	233	223
05		-2							244	234	224
06		0							245	235	225
07		2							246	236	226
08		4							247	237	227
09		6							248	238	228
10		8							249	239	229
11		-8	C		-15				267	256	250
12		-4							266	257	251
13		0							265	253	252
14		4							264	254	253
15		6							263	260	254
16		8							262	261	255

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICENTS

$\alpha A = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta B = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta C = -8, -6, -4, 0, 4, 6, 8$

IDVAR(1) IDVAR(2) NDV

TABLE II. CONTINUED

TEST: ARC 8×7-707 (IA9C) — DATA SET RUN NUMBER COLLATION SUMMARY — DATE 5-1-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	i_o	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.0	3.5	TEST RUN NUMBERS
RBN×17	$\emptyset_{2A}$ + S_3 + T_9	-8	C	0	-10	0	0.5	3	274	280*	268	
18		-4							275	281*	269	
19		0							276	282*	270	
20		4							277	283*	271	
21		6							278	284*	272	
22		8							279	285*	273	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR(1) IDVAR(2) NDV

α OR β SCHEDULES

* NOTE: RUNS 280-285 : β SCHEDULE IS: -8, -4, 0, 4, 8

TABLE II. CONTINUED

TEST : [illegible] 11-T37 (OA11A) — DATA SET RUN NUMBER COLLATION SUMMARY — DATE --23-7[illegible]

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETER/VALUES δ_B	PARAMETER/VALUES δ_E	PARAMETER/VALUES δ_{EF}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.9	TEST RUN NUMBER
RBPX01	$B_{10}C_5D_7N_2F_4M_3N_8V_5R_5W_{87}E_{18}$	A	C	0	0		2	113	1[illegible]5	
02		0	B					1[illegible]	1[illegible]6	
03		5						1 1	1[illegible]7	
04		10						122	1[illegible]8	
05		15						123	129	
06		20			-10			124	130	
07		0	C					131	136	
08		5						132	137	
09		10						133	138	
10		15						134	139	
11		20			-20			135	140	
12		0						141	146	
13		5						142	147	
14		10						143	148	
15		15						144	149	
16		20						145	150	
17		0	D	10	0			151	156	
18		5	D	10	0			152	160	

1 7 13 19 25 31 37 43 49 [illegible] 75 76

α OR β SCHEDULES — COEFFICENTS

α A = -MAY, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = [illegible], -4, [illegible], 4, [illegible]

β D = -10, [illegible]

β E = -5, [illegible], 5

[illegible] POLAR 11 [illegible] POLAR 12 NOV

TABLE II. CONTINUED

TEST: AMES 11-707 (OA12A) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	PARAMETERS/VALUES δR	PARAMETERS/VALUES δFR	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.9	TEST RUN NUMBERS
RBP:19	$B_{10}C_5D_7N_2F_4M_3N_8V_5R_5W_{87}E_{18}$	10	D	+10	0	0	2	153	157	
20		15						154	159	
21		20						155	158	
22		0	C	-10				161	166	
23		5						162	167	
24		10						163	168	
25		15						164	169	
26		20						165	170	
27		-4	E	-20				171	182	
28		0	C					172	181	
29		5						173	180	
30		10						174	179	
31		15						175	178	
32		20						176	177	
33		-4	E	0	0	40		183	189	
34		0	C					184	190	
35		5						185	191	
36		10						186	192	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES

COEFFICENTS

α A = -MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

β C = -8, -4, 0, 4, 8

β D = -10, 0, 10

β E = -5, 0, 5

IDVAR (1) IDVAR (2) NDV

TABLE II. CONTINUED

TEST : AEDC 11-TDT (OA14A) — DATA SET RUN NUMBER COLLATION SUMMARY — DATE 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.8	0.9	1.1	1.15	1.2
FEDCBT	$S_1C_5D_7N_2F_4M_3N_8V_6R_5W_{07}F_{18}$	15	C	0	0	40		187	193			
38		10	C			40		188	194			
39		F	0			0				199	197	195
40		0.5	G							200	198	196
41		-4	E		-10			201	202			
42		-4	E		-20			203	204			
43		-4	E	10	0	0		205	206			
44		-4	E	-10				207	208			
45		-4	E	0				210	209			
46		H	0					216	211			
47		-5	I					215	213			
48		-10	I					214	213			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β SCHEDULES — COEFFICIENTS — IDVAR (1) — IDVAR (2) — NDV

α_F = -4.5, -3.5, -1.5, 0.5, 2.5, 4.5, 6.6, 8.6, 10, 15 α_H = 0, -5, -10, -15

β_G = -8, -4, -2, 0, 2, 4, 8 β_I = -10, -5, 5, 10

TABLE II. CONTINUED

TEST: 57-707 (0A12C)

DATA SET RUN NUMBER COLLATION SUMMARY

DATE 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δe	PARAMETERS/VALUES δR	PARAMETERS/VALUES δFR	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 3.5
RBGx01	B-C-D-N-F-N-V-F-N-V-F	A	0	0	0	40	2	290	286
02		0	B					293	289
04		10	C					292	288
05		[illegible]	C					[illegible]	287
06		0	D		-20			297	294
07		[illegible]						298	295
08		20						299	296
09		0		10	0			303	300
10		10						304	301
11		20						305	302
12		0		-20				309	306
13		10						310	307
14		20						311	308
15		0		-40				317	314
16		10						318	315
17		20						319	316
18		E	0	0				322	320
		30	D	0				323	321

LIST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 73 75

α OR β SCHEDULES

COEFFICENTS

αA = 0, 5, 10, 15, 20

βB = 3, -3

βC = 6, 3, -3, -6

βD = 6, 3, 0, -3, -6

αE = 15, 20, 25, 30, 35, 40

TABLE II. CONCLUDED

TEST: 87-707 (ØA12C) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE 5-9-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_R	δ_{FR}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 2.5	3.5	TEST RUN NUMBERS
RBQx 19	$B_1D_1C_5D_2N_2F_4M_{0.5}V_2G_1K_1M_{2.5}L_{2.5}$	30	D	0	-20	40	2	325	324	
20		30	D	10	0	40		327	326	
21		30	D	-20	0	40		329	328	
22		20	F	0	0	40		332	330	
23		15	G	0	0	40		333	331	

1 7 13 19 25 31 37 43 49 55 61 67 73 75

α OR β SCHEDULES — COEFFICENTS

δF = 10, 6, 0, -6, -10

-3 (...) -5

IDLAR (1) IDLAR (2) NDV

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length ~IN	1328.3	39.8490
Max. Width ~IN ($@X_o$ = 1528.3)	265.0	7.9500
Max. Depth ~IN. ($@X_o$ = 1480.52)	248.0	7.4400
Fineness Ratio	5.012	5.012
Area ~Ft^2		
Max. Cross-Sectional	456.4	.41076
Planform		
Wetted		
Base		

MODEL COMPONENT: Canopy - C2

GENERAL DESCRIPTION: 2A Configuration per Line: V170-000092

Scale Model = .030

DRAWING NUMBER: V170-000092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length (STA FWD Bulkhead)	391.0	11.730
Max. Width (T.E. Bulkhead)	560.0	16.800
Max. Depth (WP = 42.9 22 to = 500)		
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093

Scale Model = .030

DRAWING NUMBER: VL70-000093

DIMENSIONS.	**FULL-SCALE**	MODEL SCALE
Length ~ IN.	881.00	26.430
Max. Width ~ IN.	51.00	1.530
Max. Depth ~ IN.	23.00	.690
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

C Fuselage BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

[illegible] Low Light Weight [illegible]

GENERAL DESCRIPTION: [illegible]

[illegible] Angle of Incidence [illegible]

[illegible]

[illegible]

TEST NO. [illegible]

CONFIGURATION: [illegible]

TOTAL DATA
Area (Theo.) Ft²
Planform
Span (Theo) In.
Aspect Ratio
Rate of Taper
Taper Ratio
Dihedral Angle, degrees
Incidence Angle, degrees
Aerodynamic Twist, degrees
Sweep Back Angles, degrees
Leading Edge
Trailing Edge
0.25 Element Line
Chords:
Root (Theo) B.P.0.0.
Tip, (Theo) B.P. 46834
MAC
Fus. Sta. of .25 MAC
W.P. of .25 MAC
183.13 B.L. of .25 MAC

EXPOSED DATA
Area (Theo) Ft²
Span, (Theo) In. BP108 to 468.343
Aspect Ratio
Taper Ratio
Chords
Root BP108
Tip 1.00 $\frac{b}{2}$
MAC
Fus. Sta. of .25 MAC
W.P. of .25 MAC
B.L. of .25 MAC
Airfoil Section (Rockwell Mod NASA)
XXXX-64
Root $\frac{b}{2}$ .225
Tip $\frac{b}{2}$ 1.00

Tail for (1) or (2) Tubes
Leading Edge Outb.
Planform Area Ft²
Trailing Edge Intercepts Fus. @ B.L. @ Sta
Leading Edge Intercepts Wing @ Sta

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18

GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093

Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER: VL 70-000093

DIMENSIONS:		FULL-SCALE	MODEL SCALE
Area ~ Ft^2		205.52	.18497
Span (equivalent) ~ IN.		353.34	10.60020
Inb'd equivalent chord		114.78	3.44340
Outb'd equivalent chord		55.00	1.6500
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord		.208	.208
At Outb'd equiv. chord		.400	.400
Sweep Back Angles, degrees			
Leading Edge		0.00	0.00
Tailing Edge		-10.24	-10.24
Hingeline		0.00	0.00
Area Moment (Normal to hinge line) Product of Area Moment	Ft^3	1548.07	.04180

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER: VL70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	413.25	.37192
Planform		
Span (Theo) In	315.72	9.47160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	.404	.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	8.05500
Tip (Theo) WP	108.47	3.25410
MAC	199.81	5.99430
Fus. Sta. of .25 MAC	1463.50	43.90500
W. P. of .25 MAC	635.522	19.06566
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius IN.	2.00	.06
Void Area Ft^2	13.17	.01185
Blanketed Area Ft^2	12.67	.01140

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 Rudder

GENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095

Scale Model = .030

DRAWING NUMBER: VL 70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft^2	106.38	.09574
Span (equivalent) ~IN.	201.0	6.030
Inb'd equivalent chord	91.585	2.74755
Outb'd equivalent chord	50.833	1.52499
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) ~Ft^3 Product of Area and Mean Chord	526.13	.01421

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	346.0	10.380
Max. Width $X_{\_}$ = 1450.0	108.0	3.240
Max. Depth X_o = 1500.0	113.0	3.390
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

℄ of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0 = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: F4 Body Flap

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	84.70	2.541
Max. Width	265.00	7.950
Max. Depth		
Fineness Ratio		
Area ~ Ft^2		
Max. Cross-Sectional		
Planform	142.64	.12838
Wetted		
Base Ft^2	38.65	.03478

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : 33-Booster Solid Rocket Motor

GENERAL DESCRIPTION : A Configuration Per Rockwell Lines VL77-000012 & VL77-000061 "B"

Body of Revolution; Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER : VL 77-000012

DIMENSIONS	FULL SCALE	MODEL SCALE
Length -IN.	1732.0	51.96
Max Width (DIA) IN. BSRM Tank	142.0	4.260
Max Depth (DIA) Aft Skirt	259.0	7.77
Fineness Ratio L/D	6.687	6.687
Area - Ft^2		
Max. Cross-Sectional (Aft Skirt)	365.87	.32928
Planform		
Wetted		
Base		

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. FT = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER NONE

DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN.	1858	55.740
Max Width (Dia) - IN.	324.0	9.720
Max Depth		
Fineness Ratio L/D	5.73457	5.73457
Area - FT^2		
Max Cross-Sectional	572.56	0.51530
Planform		
Wetted		
Base		
Nose, Radius, IN.	30.0	

ORBITER STATION ~ X_o			RADIAL LOCATION θ ~ DEGREES																
FULL	MODEL	X_o/ℓ_o	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	
210	6.30	.006	21					22												23
225	6.75	.019	24	25	26	27	28	29			30			31						32
245	7.35	.034	33	34	35	36	37	38			39			40						41
280	8.40	.060	42	43	44	45	46	47			48			49						50
380	11.40	.136	51	52	53	54	55	56			57			58						59
400	12.00	.151																	60	
410	12.30	.158													61					
430	12.90	.173	62	63	64	65	66	67			68			69		70		71		72
460	13.80	.196											73							
500	15.00	.226	74	75	76	77	78	79			80			81			82			83
560	16.80	.271	84		85		86	87			88			89			90			91
625	18.75	.320	92		93		94	95			96			97			98			99
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			114			115
980	29.40	.587	116		117															
1080	32.40	.662			118		119	120			121			122			123			124
1180	35.40	.738					125	126			127			128						129
1245	37.35	.787			130		131	132	133		134	135		136			137			138
1300	39.00	.828			139		140	141	142		143	144		145			146			147
1375	41.25	.885			147		148	149	150		151	152		153			154			155
1431	42.93	.928			155		156	157	158		159	160		161			162			163
1480	44.40	.964	163				164	165	166		167	168		169			170			171
1530[a]	45.90	1.001								171	173									
1530[b]	45.90	1.001								172	174									

a OMS POD, INSIDE

b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X_o		θ ~ DEG	
FULL	MODEL	0	40
1580	47.40	175	176

MPS NOZZLE

X ~ IN. FWD BASE		θ ~ DEG					
FULL	MODEL	0	90	135	180	225	270
25	0.75	181	182	183	184	185	186
50	1.50	187	188	189	190	191	192
75	225		193	194	195	196	197

OMS NOZZLE

X ~ IN FWD BASE		θ ~ DEG		
FULL	MODEL	135	180	225
10	0.30	177	178	179
20	0.60		180	

VERTICAL TAIL

WATER PLANE ~ Z_o				X/C ~ THEORETICAL VERTICAL CHORD							
FULL	MODEL	η_V		0	.05	.15	.30	.52	.65	.775	.90
525	15.75	.079		400							
550	16.50	.158	L	410	411	412	413	414	415	416	
			R		511	512	513	514	515	516	
600	18.00	.316	L	420	421	422	423	424	425	426	427
			R		521	522	523	524	525	526	527
690	20.70	.60	L	430	431	432	433	434	435	436	437
			R		531	532	533	534	535	536	537
765	22.95	.84	L	440	441	442	443	444	445	446	447
			R		541	542	543	544	545	546	547
792	23.76	.925	L	450	451	452	453	454	455	456	457
			R		551	552	553	554	555	556	557

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. Continued.

ORBITER WING

ORBITER B.P. – Y_o				X/C – THEORETICAL WING CHORD																		
FULL	MODEL	η		-.49	-.35	-.25	-.15	-.033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.85	.90	.95
140	4.20	.299	U	200	201		202			203		204		205					206		208		209
			L		301		302			303		304		305					306		308		309
170	5.10	.364	U			210	211			212													
			L				311			313													
200	6.00	.427	U					220		221	222		223	224					225		228	228	229
			L							321	322		323	324					325		327	328	329
230	**7.50**	**.534**	U						230	231	232	233	234	235				236		237		238	239	240
			L							331	332	333	334	335				336		337		338	339	340
315	9.45	.673	U						250	251	252	253	254	255			256			257		258		259
			L							351	352	353	354	355			356			357		358		359
365	10.95	.780	U						260	261	262	263				264			265			268		267
			L							361	362	363				364			365			366		367
415	12.45	.887	U						270	271	272	273	274		275				276				277	
			L							371	372	373	374		376				376				377	

U – UPPER SURFACE L – LOWER SURFACE

η	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900, .969
.364	0, .096, .246
.427	0, .081, .177, .402, .565, .760, .866, .897, .905, .953
.534	SAME AS THEORETICAL CHORD
.673	
.780	
.887	

c. Orbiter Wing

Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT			θ ~ DEG									
FULL	MODEL	XT/LT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610									
317.7	9.53	.001	611			614					629	630
400	12.00	.045	621	622	623	624	625		627		629	
520	15.60	.110	631	632	633	634	635		637	638	639	
640	19.20	.174	641	642	643	644	645		647	648	649	
670	20.10	.191	651	652	653	654	655		657	658	659	
710	21.30	.212	661	662	663	664	665		667	668	669	
750	22.50	.234	671	672	673	674	675	676	677	678	679	
850	**25.50**	.287	681	682	683	684	685		687	688	689	
950	28.50	.341	691	692	693	694	695	696	697	698	699	
1050	31.50	.395	701	702	703	704	705		707	708	709	
1150	34.50	.449	711	712	713	714	715	716	717		719	
1250	37.50	.503	721	722	723	724	725		**727**	728	729	
1350	40.50	.557	731	732	733	734	735	736	737		739	
1500	45.00	.637	741	742	743	744	745		747	748	749	
1700	51.00	.745	751	752	753		755	756	757		759	
1900	57.00	.853	761	762	763		765	766	767	768		
2040	61.20	.929	771	772	773	774	775	776	777	778		
STING CAVITY			601									
BASE			602			603					604	

d. External Tank

Table II. Continued.

LEFT SRM

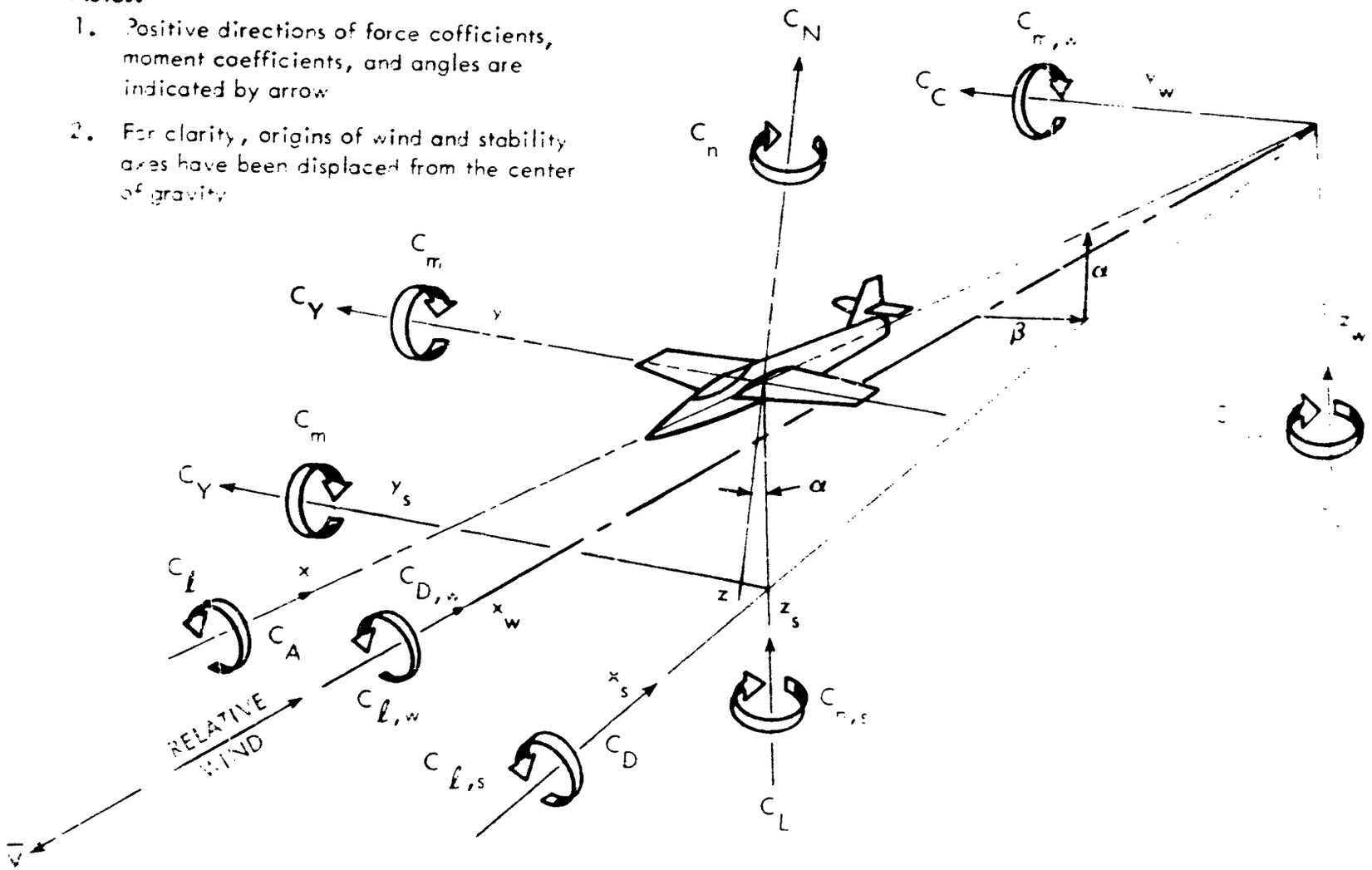
SRM STATION ~ XS			θ DEG							
FULL	MODEL	XS/ℓS	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

c. Left SRM

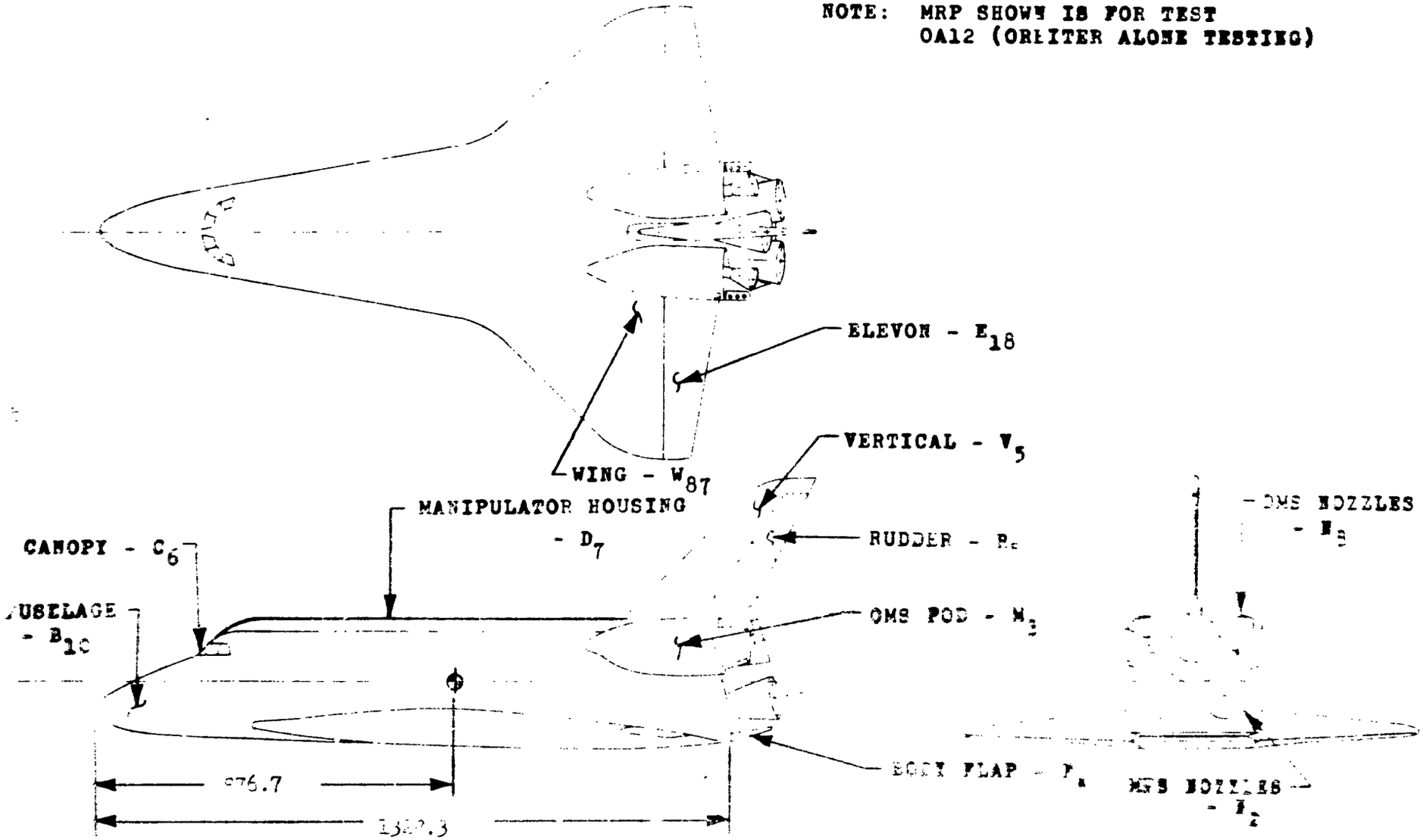
Table IV. Concluded.

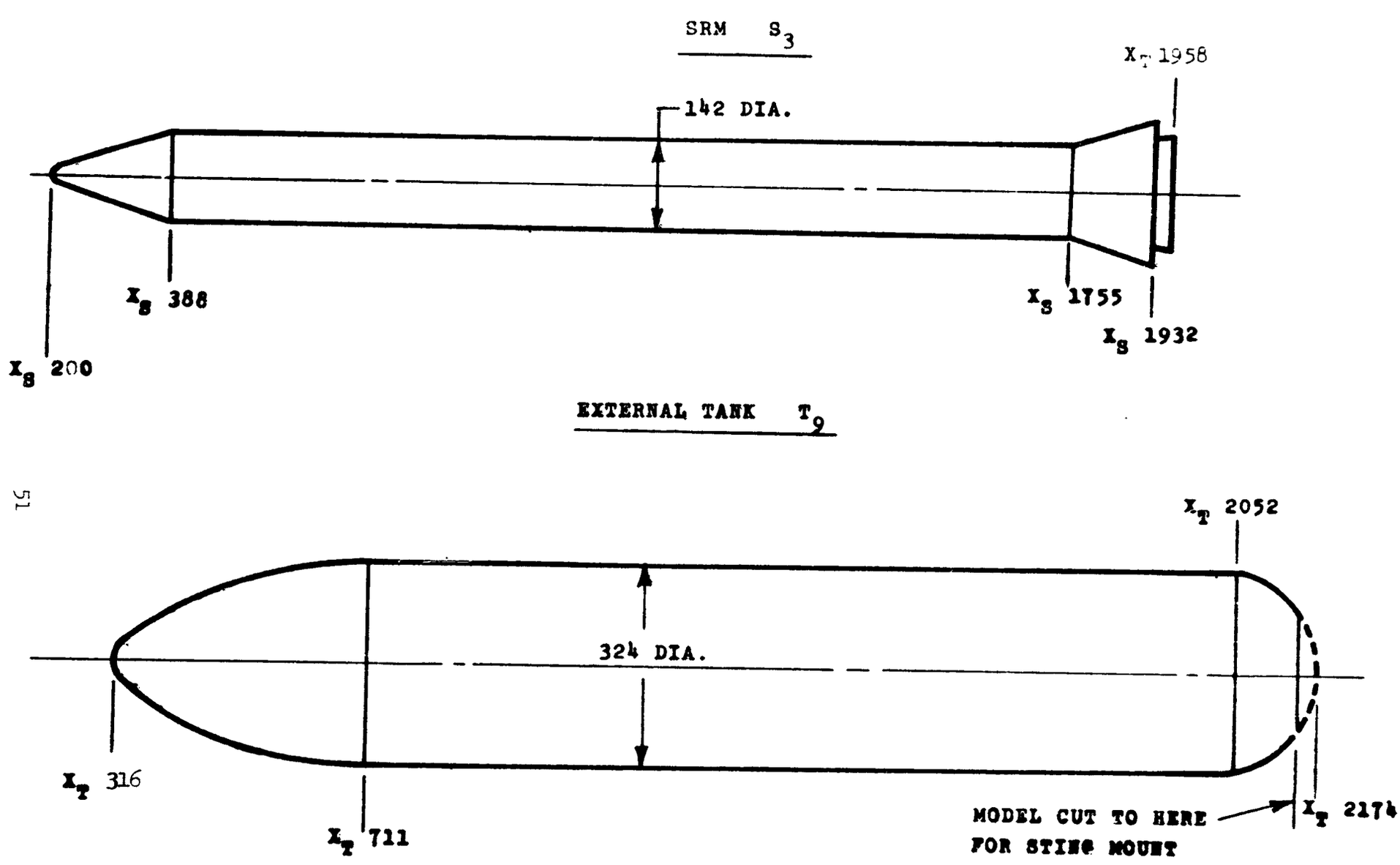
Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

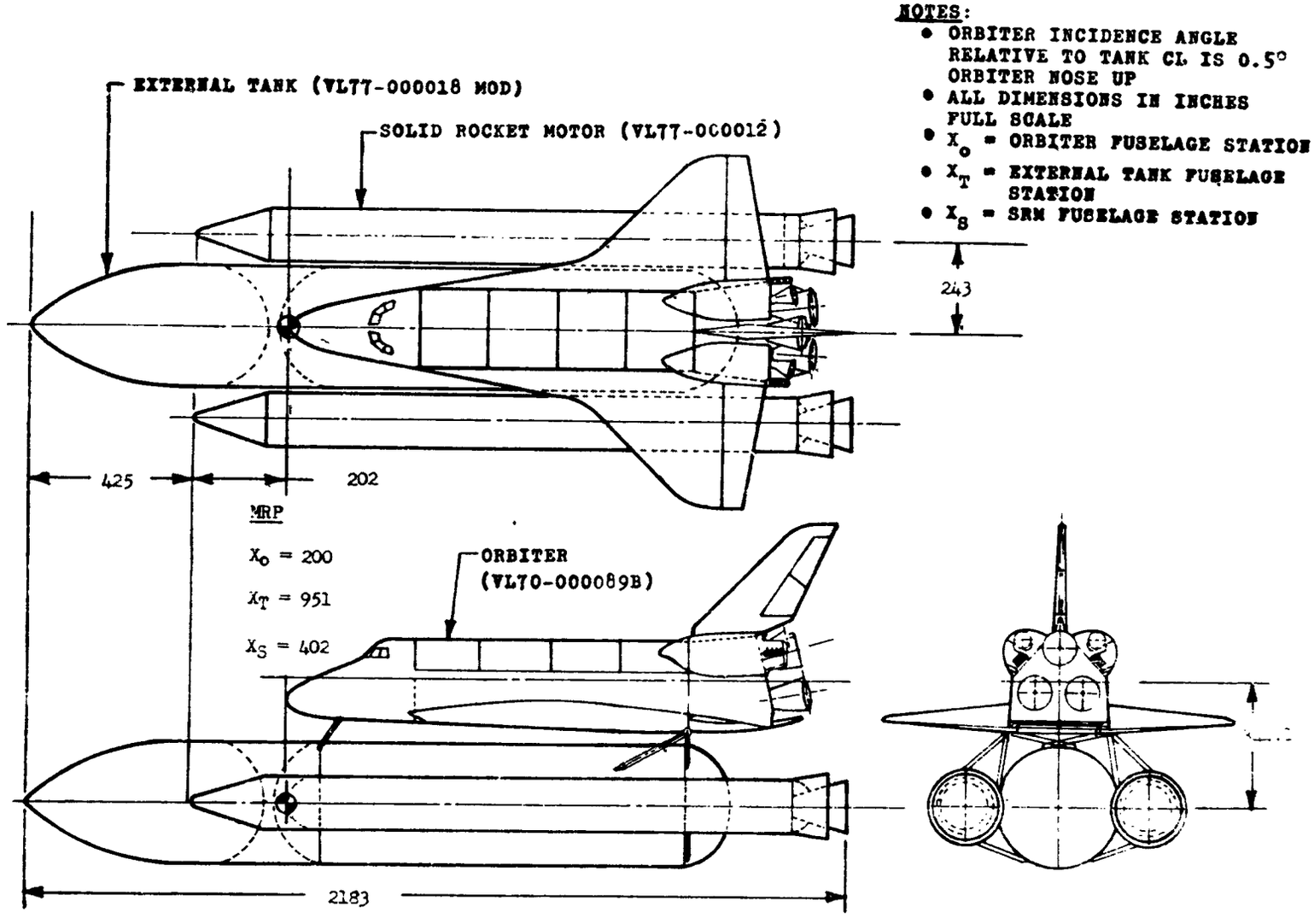


NOTE: MRP SHOWN IS FOR TEST
OA12 (ORBITER ALONE TESTING)



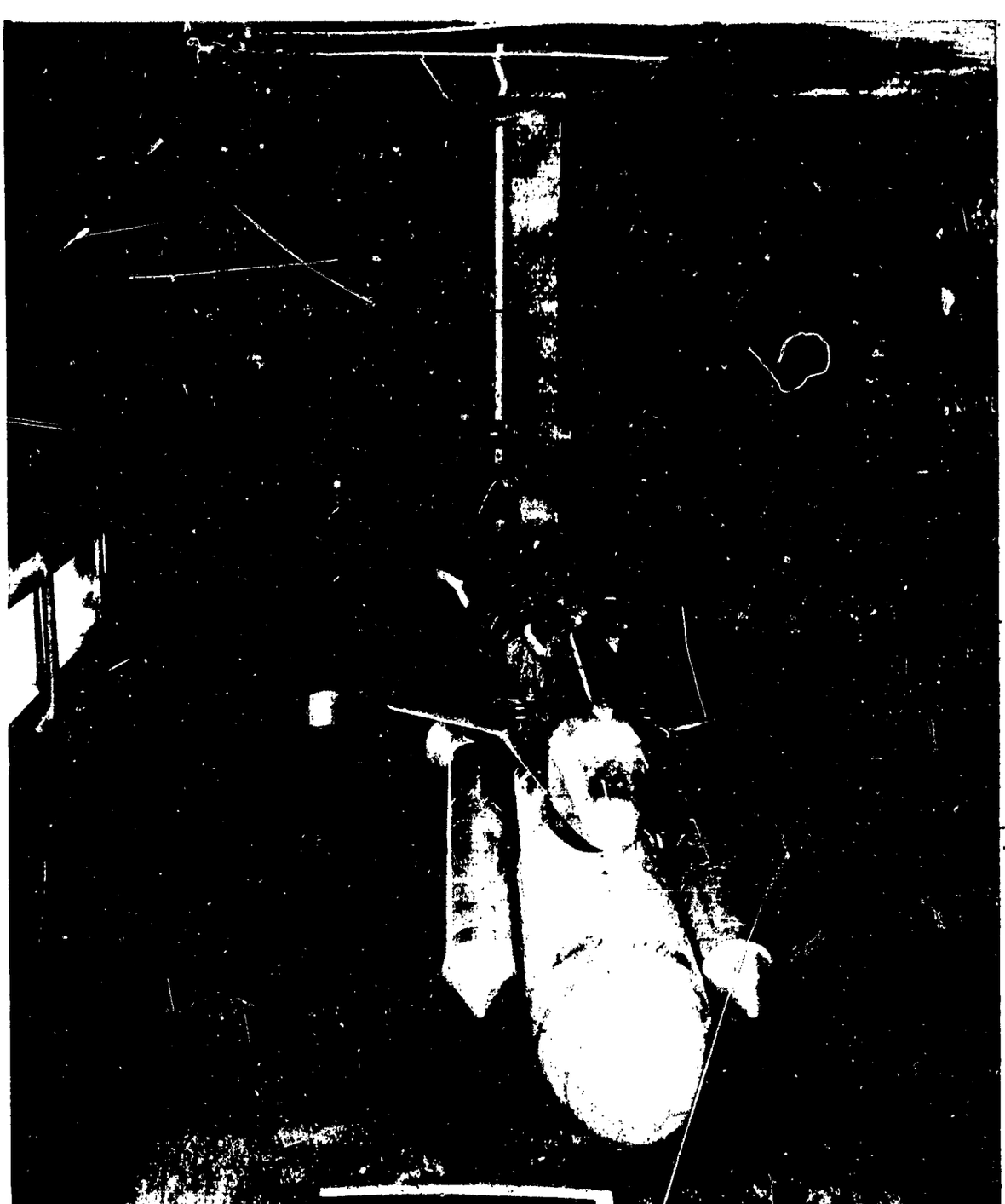


b. SRM, S_3, and External Tank, T_9



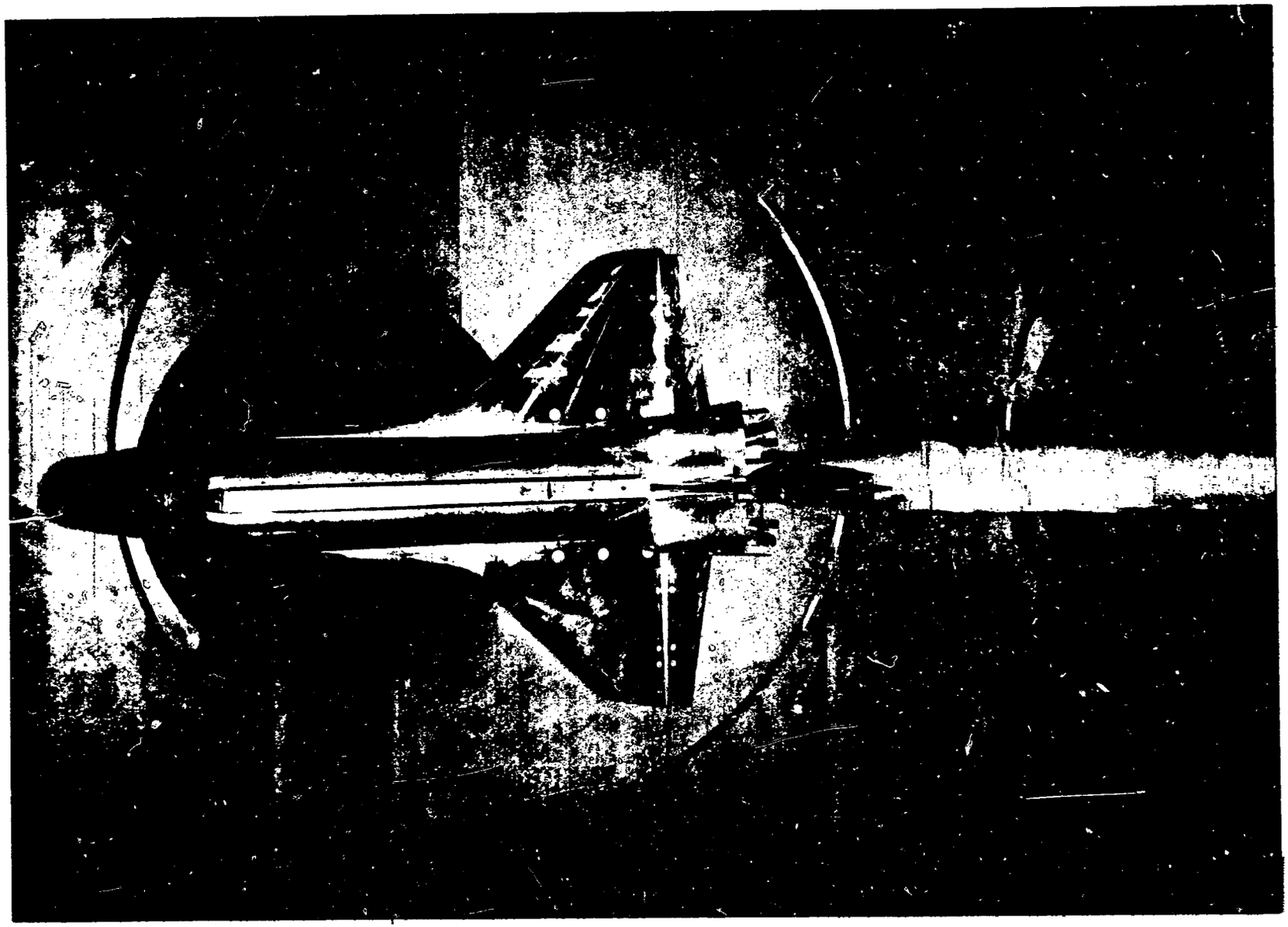
c. Integrated Vehicle

Figure [illegible] - Concluded.



a. Interceptor (Launch) Vehicle Mounted in the [illegible] Tunnel

[illegible] - Model Installation Photograph



b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

Figure 3. - Concluded.

TABULATED PRESSURE DATA

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB01) (07 AUG 73.)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = 1.900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .601 ALPHAT(1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1881	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0340	.3930	.6560	-.6960	-.1090	-.0560			-.0590		-.0710	-.0660	-.0370	-.0090	.0280
20.000			-.4400	-.6280	-.1260	-.0660			-.0670		-.0810				
40.000			-.3240	-.5200	-.1220	-.0960			-.1010		-.1550	-.1250	-.0420	-.0180	.0170
55.000			-.3230	-.4370	-.0780	-.0510			-.0780		-.1270				
70.000			-.1930	-.3770	-.0770	-.0440			-.0800		-.1650	-.3600	-.0720	.0170	.0500
90.000		.5250	-.1520	-.3240	-.0430	-.0570			-.1190		-.2000	-.4010	-.0800	.0030	.0240
120.000			.0070	-.1150	.0500	.0200			-.2290		-.2240	-.2590	-.0760	-.0150	.0190
142.000										-.4130					
150.000			.1350	.0610	.2020	.3350			-.1070		-.3770	-.1580	-.0640	-.0150	.0200
157.000								.2260							
162.000									-.2020						
165.000											-.3720	-.1280	-.0520	-.0130	.0120
169.000									-.1340						
172.000							.6540								
180.000	1.0340	.6500	.1330	.1650	.2620	.5920			-.0520		-.4530	-.1130	-.0550	-.0120	.0170

X/LB	.5873	.6626	.7380	.7869	.8265	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0330							-.0650		.1240
40.000	.0170	-.1010		-.2840	-.2950	-.1830	-.1280			-.1350
70.000		-.0440	-.0650	-.0990	-.0200	-.0580	-.0460	-.0860		
90.000		-.0090	-.0280	-.0740	-.0650	-.0990	-.0990	-.1140		
105.000				-.0870	-.1410	-.1290	-.1160	-.1450		
110.000									-.2570	
120.000		.0190	.1180	-.0580	-.4360	-.2130	-.1290	-.1350	-.1970	
135.000				.4560	-.0240	-.2440	-.1650	-.1610		
150.000		.0450	.1660	.3640	.1020	-.1720	-.1680	-.2280		
165.000		.0450		.2790	.2040	-.1290	-.1840	-.2790		
180.000		.4120	.1390	.1620						

AMES 11-707 1A9 OEA + SS + T9 ORBITER FUSELAGE (RBMB01)

MACH (1) = .990 ALPHAT(2) = -6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0330	.3970	.6090	-.6850	-.1150	-.0660			-.0750		-.0880	-.0740	-.0390	-.0140	.0300
20.000			-.4100	-.6250	-.1280	-.0720			-.0750		-.0900				
40.000			-.2880	-.5110	-.1240	-.0980			-.1090		-.1590	-.1320	-.0510	-.0230	.0240
55.000			-.2570	-.4400	-.0820	-.0490			-.0810		-.1320				
70.000			-.1900	-.3780	-.0830	-.0430			-.0900		-.1730	-.3950	-.0880	-.0030	.0250
90.000		.9280	-.1670	-.3430	-.0480	-.0480			-.1160		-.2060	-.4280	-.0910	-.0170	.0080
120.000			-.0380	-.1390	.0400	.0240			-.2190		-.2490	-.2730	-.0860	-.0240	.0070
142.000										-.4410					
150.000			.0700	.0330	.1670	.3220			-.1450		-.4220	-.1690	-.0790	-.0270	.0030
157.000								.2100							
162.000									-.2550						
165.000											-.4060	-.1420	-.0680	-.0270	-.0060
169.000									-.1990						
172.000							.6900								
180.000	1.0350	.6100	.0560	.1110	.2250	.5690			-.0690		-.4920	-.1360	-.0740	-.0250	-.0020

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0990							-.0880		.1050
40.000	.0220	-.0880		-.2880	-.3120	-.1990	-.1080			-.1480
70.000		-.0820	-.1140	-.1200	-.0290	-.0650	-.0470	-.0850		
90.000		-.0450	-.0480	-.0920	-.0730	-.1080	-.0960	-.1190		
105.000				-.0940	-.1480	-.1100	-.1190	-.1540		
110.000									-.2620	
120.000		-.0030	.1040	-.0990	-.4210	-.2140	-.1250	-.1370	-.1940	
135.000				.4360	-.0330	-.2420	-.1600	-.1870		
150.000		.0250	.1500	.3220	.0750	-.1860	-.1770	-.2370		
165.000		.0270		.2500	.1750	-.1480	-.1970	-.2880		
180.000		.3750	.1200	.1370						

MACH (1) = .997 ALPHAT(3) = -4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0180	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0330	.4440	-.0800	-.6790	-.1190	-.0650			-.0720		-.0900	-.0790	-.0450	-.0140	.0360
20.000			-.3750	-.6050	-.1240	-.0740			-.0750		-.0920				
40.000			-.2540	-.4920	-.1170	-.0900			-.0980		-.1550	-.1300	-.0520	-.0190	.0290
55.000			-.2080	-.4380	-.0780	-.0450			-.0790		-.1330				
70.000			-.1760	-.3770	-.0850	-.0410			-.0890		-.1740	-.4070	-.1050	-.0170	.0020
90.000		.9250	-.1780	-.3490	-.0450	-.0480			-.1120		-.2040	-.4410	-.1050	-.0250	-.0200
120.000			-.0850	-.1780	.0290	.0240			-.1960		-.2710	-.2890	-.0900	-.0310	-.0060

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM801)

MACH (1) = .597 ALPHAT(3) = -4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4670					
150.000			.0040	-.0220	.1350	.3080			-.1720		-.4620	-.1910	-.0910	-.0420	-.0060
157.000								.1910							
162.000									-.3000						
165.000											-.4410	-.1660	-.0840	-.0390	-.0170
169.000									-.2610						
172.000							.6070								
180.000	1.0330	.5670	-.0230	.0560	.1810	.5470			-.0690		-.5240	-.1540	-.0870	-.0450	-.0130

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.0730							-.0700		.065
40.000	.0380	-.0620		-.2700	-.3070	-.1650	-.0940			-.1490
70.000		-.1140	-.1480	-.1360	-.0390	-.0680	-.0480	-.0810		
90.000		-.0720	-.0690	-.0970	-.0860	-.1050	-.0990	-.1210		
105.000				-.0930	-.1480	-.1350	-.1210	-.1510		
110.000									-.2560	
120.000		-.0210	.0910	-.0110	-.4010	-.2130	-.1210	-.1310	-.1940	
135.000				.4210	-.0480	-.2390	-.1540	-.1840		
150.000		.0090	.1360	.2770	.0390	-.1970	-.1880	-.2420		
165.000		.0070		.2280	.1450	-.1650	-.2130	-.2800		
180.000		.3090	.1010	.1170						

MACH (1) = .599 ALPHAT(4) = -2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0630	.4850	-.2890	-.6390	-.1120	-.0640			-.0730		-.0810	-.0740	-.0420	-.0060	.0470
20.000			-.3290	-.5790	-.1130	-.0700			-.0730		-.0870				
40.000			-.2130	-.4730	-.1030	-.0780			-.0870		-.1450	-.1260	-.0470	-.0130	.0410
55.000			-.1760	-.4180	-.0740	-.0420			-.0700		-.1300				
70.000			-.1640	-.3740	-.0920	-.0360			-.0830		-.1710	-.4150	-.1120	-.0320	-.0150
90.000		.5310	-.1910	-.3510	-.0420	-.0370			-.1030		-.2060	-.4540	-.1090	-.0360	-.0320
120.000			-.1180	-.1960	.0270	.0340			-.1750		-.2910	-.3020	-.0990	-.0420	-.0230
142.000										-.4870					
150.000			-.0490	-.0600	.1120	.3010			-.2010		-.4950	-.1960	-.1000	-.0490	-.0170
157.000								.1810							
162.000									-.3390						
165.000											-.4580	-.1750	-.0920	-.0420	-.0230
169.000									-.3200						
172.000							.5870								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RUN801)

MACH (1) = .999 ALPHAT(4) = -2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0690	.5120	-.0890	.0070	.1490	.5250			-.0730		-.5360	-.1570	-.0910	-.0480	-.0290

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0880							-.0720		.0690
40.000	.0560	-.0290		-.2510	-.3040	-.1840	-.0830			-.1450
70.000		-.1520	-.1710	-.1490	-.0580	-.0670	-.0450	-.0780		
90.000		-.1020	-.0870	-.0990	-.0870	-.1000	-.0990	-.1150		
105.000				-.0890	-.1380	-.1300	-.1190	-.1480		
110.000									-.2520	
120.000		-.0430	.0750	.0190	-.3820	-.2050	-.1190	-.1250	-.1880	
135.000				.4090	-.0570	-.2390	-.1560	-.1790		
150.000		-.0100	.1170	.2460	.0090	-.2120	-.1680	-.2440		
165.000		-.0030		.2020	.1180	-.1750	-.2150	-.2760		
180.000		.2820	.0840	.0960						

MACH (1) = .997 ALPHAT(5) = -.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0840	.5210	-.2700	-.6120	-.1070	-.0570			-.0660		-.0790	-.0690	-.0400	-.0040	.0540
20.000			-.2690	-.5480	-.1070	-.0620			-.0660		-.0840				
40.000			-.1780	-.4520	-.0920	-.0630			-.0740		-.1380	-.1210	-.0480	-.0080	.0480
55.000			-.1440	-.4100	-.0690	-.0340			-.0690		-.1280				
70.000			-.1930	-.3690	-.0920	-.0340			-.0760		-.1720	-.4320	-.1310	-.0470	-.0400
90.000		.5280	-.1930	-.3580	-.0400	-.0300			-.0920		-.2130	-.4720	-.1280	-.0590	-.0530
120.000			-.1630	-.2230	.0140	.0420			-.1560		-.3190	-.3150	-.1140	-.0550	-.0370
142.000										-.5130					
150.000			-.1140	-.1070	.0850	.2870			-.2270		-.5340	-.2120	-.1060	-.0510	-.0340
157.000								.1880							
162.000									-.3850						
165.000											-.4860	-.1880	-.1000	-.0550	-.0360
169.000									-.3700						
172.000							.3650								
180.000	1.0840	.4520	-.1690	-.0450	.1140	.5030			-.0770		-.5570	-.1730	-.1030	-.0540	-.0350

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0960							-.0720		.0220
40.000	.0690	-.0070		-.2330	-.2890	-.1730	-.0870			-.1480

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (1) = .597 ALPHAT(5) = -.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1910	-.2030	-.1600	-.0400	-.0700	-.0470	-.0820		
90.000		-.1370	-.1050	-.1030	-.0890	-.1110	-.1010	-.1200		
105.000				-.0860	.1390	-.1130	-.1220	-.1500		
110.000									-.2490	
120.000		-.0660	.0600	-.0020	-.3570	-.2110	-.1230	-.1270	-.1860	
135.000				.3850	-.0710	-.2420	-.1610	-.1850		
150.000		-.0250	.1000	.2190	-.0220	-.2340	-.2040	-.2500		
165.000		-.0240		.1780	.0990	-.1920	-.2250	-.2820		
180.000		.2500	.0670	.0760						

MACH (1) = .598 ALPHAT(6) = 1.980

SECTION (1)ORBITED FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0073	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0780	.5670	-.2100	-.5770	-.0940	-.0400			-.0550		-.0850	-.0550	-.0250	.0070	.0650
20.000			-.2510	-.5210	-.0940	-.0480			-.0510		-.0730				
40.000			-.1420	-.4160	-.0790	-.0420			-.0550		-.1220	-.1080	-.0290	.0050	.0530
55.000			-.1200	-.3800	-.0620	-.0250			-.0610		-.1210				
70.000			-.1400	-.3610	-.0940	-.0250			-.0740		-.1720	-.4290	-.1390	-.0630	-.0360
90.000		.5300	-.2010	-.3600	-.0380	-.0220			-.0850		-.2070	-.4500	-.1370	-.0640	-.0810
120.000			-.2010	-.2470	.0020	.0470			-.1270		-.3370	-.3250	-.1250	-.0680	-.0370
142.000										-.5280					
150.000			-.1790	-.1500	.0590	.2810			-.2440		-.5680	-.2180	-.1100	-.0580	-.0410
157.000								.1540							
162.000									-.4220						
165.000											-.4970	-.1950	-.1040	-.0620	-.0440
169.000									-.4230						
172.000							.5470								
180.000	1.0780	.3870	-.2440	-.0940	.0810	.4870			-.0780		-.5690	-.1720	-.1080	-.0620	-.0420

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1100							-.0780		-.0460
40.000	.0840	.0220		-.2110	-.2850	-.1640	-.0760			-.1520
70.000		-.2290	-.2230	-.1710	-.0350	-.0670	-.0410	-.0750		
90.000		-.1660	-.1270	-.1060	-.0900	-.1080	-.0970	-.1170		
105.000				-.0900	-.1320	-.1110	-.1180	-.1460		
110.000									-.2390	
120.000		-.0880	.0520	.0540	-.3300	-.2030	-.1160	-.1290	-.1810	
135.000				.3120	-.0760	-.2340	-.1600	-.1650		
150.000		-.0400	.0800	.2010	-.0480	-.2320	-.2010	-.2470		

AMES 11-707 IA9 02A + 33 + T9 ORBITER FUSELAGE (RBNB01)

MACH (1) = .598 ALPHAT(6) = 1.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
165.000		-.0350		.1560	.0780	-.1920	-.2290	-.2710		
180.000		.2250	.0320	.0470						

MACH (1) = .597 ALPHAT(7) = 3.930

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0540	.6010	-.1790	-.5370	-.0720	-.0300			-.0300		-.0570	-.0420	-.0110	.0190	.0810
20.000			-.1800	-.4880	-.0790	-.0310			-.0370		-.0580				
40.000			-.0940	-.3540	-.0590	-.0240			-.0350		-.1110	-.0990	-.0180	.0130	.0750
55.000			-.0830	-.3600	-.0490	-.0200			-.0540		-.1220				
70.000			-.1170	-.3560	-.0930	-.0210			-.0630		-.1700	-.4350	-.1550	-.0810	-.0770
90.000		.5270	-.2010	-.3660	-.0340	-.0140			-.0760		-.2010	-.4950	-.1490	-.0850	-.1020
120.000			-.2350	-.2660	.0000	.0490			-.1050		-.3610	-.3380	-.1360	-.0790	-.0740
142.000										-.5480					
150.000			-.2350	-.1960	.0400	.2780			-.2660		-.5960	-.2230	-.1140	-.0800	-.0490
157.000								.1450							
162.000									-.4570						
165.000											-.5050	-.2020	-.1060	-.0620	-.0500
169.000									-.4750						
172.000							.5250								
180.000	1.0540	.3450	-.3100	-.1370	.0520	.4670			-.0750		-.5720	-.1760	-.1060	-.0610	-.0480

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1280							-.0780		-.0400
40.000	.1050	.0480		-.1870	-.2700	-.1890	-.0850			-.1390
70.000		-.2680	-.2480	-.1770	-.0290	-.0620	-.0360	-.0720		
90.000		-.1990	-.1410	-.1070	-.0870	-.1060	-.0940	-.1110		
105.000				-.0810	-.1190	-.1070	-.1150	-.1450		
110.000									-.2320	
120.000		-.1080	.0370	.0720	-.3080	-.1970	-.1160	-.1230	-.1810	
135.000				.3130	-.0970	-.2440	-.1580	-.1820		
150.000		-.0550	.0710	.1760	-.0670	-.2390	-.2120	-.2550		
165.000		-.0480		.1400	.0610	-.2000	-.2290	-.2700		
180.000		.2000	.0410	.0280						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM

MACH (1) = .600 ALPHAT(8) = 5.900

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3230	.3953	.5120
PHI															
.000	1.0340	.6360	-.0630	-.5060	-.0610	-.0210			-.0240		.3450	-.0340	-.0040	.0280	.0890
20.000			-.1380	-.4490	-.0620	-.0210			-.0250		-.0520				
40.000			-.0500	-.3590	-.0430	-.0120			-.0210		-.1900	-.0940	-.0110	.0280	.0840
55.000			-.0500	-.3520	-.0450	-.0260			-.0540		-.1220				
70.000			-.1060	-.3520	-.1040	-.0220			-.0630		-.1700	-.4510	-.1760	-.0960	-.0970
90.000		.5160	-.2170	-.3740	-.0440	-.0150			-.0720		-.2100	-.5270	-.1710	-.1060	-.1340
120.000			-.2790	-.3010	-.0160	.0460			-.0910		-.3990	-.3690	-.1560	-.1030	-.0970
142.000										-.5730					
150.000			-.2990	-.2440	.0140	.2640			-.2960		-.6440	-.2340	-.1280	-.0780	-.0630
157.000								.1330							
162.000									-.4970						
165.000											-.5200	-.2140	-.1140	-.0710	-.0630
169.000									-.5320						
172.000							.5060								
180.000	1.0340	.2790	-.3920	-.1790	.0270	.4480			-.0790		-.5880	-.1850	-.1130	-.0610	-.0580

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1380							-.0780		-.0580
40.000	.1170	.0690		-.1710	-.2640	-.1560	-.0750			-.1380
70.000		-.3110	-.2770	-.1940	-.0360	-.0660	-.0370	-.0880		
90.000		-.2330	-.1650	-.1170	-.0900	-.1140	-.0950	-.1130		
105.000				-.0830	-.1240	-.1160	-.1200	-.1440		
110.000									-.2380	
120.000		-.1350	.0280	.0940	-.3000	-.2050	-.1230	-.1270	-.1850	
135.000				.2830	-.1140	-.2520	-.1690	-.1910		
150.000		-.0740	.0490	.1480	-.0920	-.2490	-.2150	-.2580		
165.000		-.0830		.1130	.0450	-.2280	-.2380	-.2720		
180.000		.1790	.0260	.0010						

MACH (1) = .999 ALPHAT(9) = 7.950

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0340	.6950	-.0330	-.4520	-.0440	-.0070			-.0110		-.0320	-.0230	.0030	.0390	.0980
20.000			-.0770	-.4170	-.0420	-.0050			-.0070		-.0400				
40.000			-.0060	-.3190	-.0280	.0090			-.0020		-.0850	-.0880	-.0020	.0410	.0960
55.000			-.0180	-.3220	-.0410	-.0230			-.0470		-.1150				
70.000			-.0930	-.3440	-.1060	-.0170			-.0610		-.1670	-.4600	-.1930	-.1150	-.1170
90.000		.5140	-.2210	-.3790	-.0450	-.0120			-.0670		-.2170	-.5470	-.1950	-.1270	-.1260
120.000			-.3240	-.3240	-.0270	.0480			-.0660		-.4270	-.3890	-.1710	-.1210	-.1200

AMES 11-7ft IA9 02A + 93 + T9 ORBITER FUSELAGE (RBMBO)

MACH (1) = .599 ALPHAT(9) = 7.950

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5880					
150.000			-.3540	-.2970	-.0070	.2550			-.3160		-.6750	-.2460	-.1260	-.0850	-.0780
157.000								.1220							
162.000									-.5310						
165.000											-.3295	-.2210	-.1120	-.0700	-.0670
169.000									-.5850						
172.000							.4900								
180.000	1.0580	.2030	-.4510	-.1960	-.0010	.4310			-.0800		-.5910	-.1680	-.1080	-.0730	-.0590

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1570							-.0830		-.0560
40.000	.1310	.0905		-.1470	-.2510	-.1400	-.0600			-.1330
70.000		-.3500	-.3020	-.2030	-.0360	-.0630	-.0350	-.0620		
90.000		-.3617	-.1840	-.1130	-.0880	-.1090	-.0940	-.1060		
105.000				-.0730	-.1090	-.1120	-.1190	-.1390		
110.500									-.2310	
120.000		-.1550	.0210	.1230	-.2810	-.2070	-.1250	-.1240	-.1830	
135.000				.2550	-.1340	-.2580	-.1750	-.2000		
150.000		-.0940	.0310	.1400	-.1110	-.2490	-.2200	-.2620		
165.000		-.0730		.0910	.0360	-.2270	-.2340	-.2730		
180.000		.1530	.0180	-.0100						

MACH (2) = .905 ALPHAT(1) = -0.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1700	.6240	.0000	-.9670	-.2300	-.0760			-.1240		-.2480	-.2380	-.0850	.0190	.0900
20.000			-.1500	-.8790	-.0850	-.0840			-.1270		-.2740				
40.000			-.0630	-.7800	-.0760	-.1160			-.1740		-.3520	-.3670	-.0580	.0110	.0770
55.000			-.0370	-.7380	-.0530	-.0560			-.1410		-.3370				
70.000			-.0280	-.6890	-.0570	-.0230			-.1420		-.3960	-.7620	-.1010	.0350	.0830
90.000		.6810	-.0310	-.5660	-.0240	-.0170			-.1660		-.4110	-.8330	-.1310	.0480	.0570
120.000			.0610	-.2040	.0770	.1140			-.1910		-.4490	-.7800	-.0210	.0240	.0520
142.000										-1.0770					
150.000			.1540	.0360	.2220	.4610			.1570		-.7350	-.4730	-.0410	.0310	.0490
157.000								.4040							
162.000									.0470						
169.000											-.8550	-.4870	-.0710	.0440	.0310
180.000									.0700						
.72							.7910								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM801)

MACH (2) = .909 ALPHAT(1) = -8.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1707	.7573	.1153	.1350	.2810	.7110			.5350		-1.0980	-.3290	-.0140	.0240	.0450
X/LB	.5873	.6828	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1430							-.0940		.0100					
40.000	.1110	.0220		-.3010	-.3280	-.2230	-.1740			-.1910					
70.000		.0120	-.0540	-.1320	-.1170	-.1820	-.0480	-.0520							
90.000		.0350	.0220	-.0780	-.1860	-.2590	-.0680	-.0740							
105.000				-.0540	-.2910	-.2860	-.1020	-.1050							
110.000									-.3010						
120.000		.0550	.1730	.0290	-.5090	-.3990	-.1380	-.1340	-.2350						
135.000				.5180	.0440	-.4820	-.2050	-.2000							
150.000		.0760	.2140	.4140	.1670	-.2480	-.1610	-.2560							
165.000		.0730		.3450	.2800	-.1570	-.1450	-.3310							
180.000		.1670	.1770	.2510											

MACH (2) = .699 ALPHAT(2) = -5.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1980	.6550	.0000	-.9630	-.2260	-.0680			-.1170		-.2300	-.2020	-.0620	.0190	.0920
20.000			-.1180	-.8660	-.2520	-.0770			-.1160		-.2300				
40.000			-.0360	-.7650	-.1170	-.1000			-.1560		-.3220	-.2020	-.0830	.0190	.0830
55.000			-.0150	-.7300	-.0930	-.0430			-.1230		-.3060				
70.000			-.0250	-.7070	-.0730	-.0160			-.1240		-.2780	-.7490	-.2780	-.1480	.0710
90.000		.6850	-.0440	-.6220	-.0380	-.0060			-.1460		-.3980	-.6300	-.0900	.0370	.4470
120.000			.0090	-.2740	.0060	.1190			-.1640		-.4590	-.7940	-.0220	.0370	.7470
142.000										-1.0930					
150.000			.0810	-.0410	.1860	.4510			.1370		-.7630	-.4810	-.0490	.0280	.7930
157.000								.3950							
162.000									.0180						
165.000											-.8540	-.5250	-.0110	.0440	.7930
169.000									.0270						
172.000							.7820								
180.000	1.1980	.7120	.0260	.0610	.2390	.6920			.5020		-1.1300	-.3540	-.0240	.0440	.7930
X/LB	.5873	.6828	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1490							-.0870		.0190					
40.000	.1220	.0390		-.2380	.3190	-.2160	-.1540			-.1690					

MACH (2) = .899 ALPHAT(2) = -5.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0300	-.0930	-.1600	-.1280	-.1680	-.0380	-.0430		
90.000		.0020	-.0080	-.0980	-.2040	-.2450	-.0850	-.0650		
105.000				-.0660	-.2960	-.2950	-.1050	-.0990		
110.000									-.2660	
120.000		.0320	.1510	.0350	-.4900	-.3910	-.1240	-.1190	-.2200	
135.000				.4700	.0270	-.4490	-.1800	-.1860		
150.000		.0530	.1910	.3710	.1350	-.2680	-.1690	-.2480		
165.000		.0530		.3090	.2420	-.1810	-.1610	-.3140		
180.000		.0410	.1570	.2190						

MACH (2) = .898 ALPHAT(3) = -4.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2190	.6750	.0000	-.9450	-.4110	-.0570			-.1030		-.2040	-.2180	-.0740	.0170	.0970
20.000			-.0840	-.8460	-.5860	-.0840			-.1030		-.2240				
40.000			-.0070	-.7440	-.2020	-.0840			-.1330		-.2810	-.2980	-.0570	.0140	.0890
55.000			.0040	-.7190	-.1370	-.0290			-.1000		-.2650				
70.000			-.0190	-.7190	-.0990	-.0060			-.1030		-.3450	-.7420	-.0720	.0330	.0540
80.000		.6870	-.0590	-.6670	-.0560	.0070			-.1200		-.3960	-.8410	-.0990	.0300	.0350
120.000			-.0390	-.3630	.0370	.1260			-.1380		-.4930	-.8320	-.0920	.0250	.0360
142.000										-1.1090					
150.000			.0070	-.1330	.1480	.4410			.9230		-.7950	-.5230	-.0830	.0250	.0240
157.000								.3860							
162.000									-.0060						
169.000											-.8670	-.5490	-.0450	.0430	.0240
169.000									-.0090						
172.000							.7680								
180.000	1.2190	.6570	-.0870	-.0180	.1910	.6750			.4500		-1.1700	-.4130	-.0370	.0170	.0230

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1600							-.0760		.0420
40.000	.1310	.0800		-.2140	-.3120	-.2130	-.1350			-.1620
70.000		-.0730	-.1300	-.1680	-.1480	-.1890	-.0320	-.0420		
90.000		-.0340	-.0380	-.1120	-.2220	-.2590	-.0770	-.0990		
105.000				-.0760	-.3120	-.3100	-.0940	-.0920		
120.000									-.2760	
135.000		.0050	.1310	.0410	-.4900	-.4150	-.1080	-.1040	-.2060	
150.000				.4360	.0070	-.4790	-.1620	-.1710		
150.000		.0300	.1730	.3310	.0950	-.3110	-.1710	-.2450		

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (2) = .898 ALPHAT(3) = -4.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0330		.2760	.2070	-.2100	-.1750	-.3060		
180.000		.0240	.1380	.1890						

MACH (2) = .902 ALPHAT(4) = -1.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1940	.7160	.0000	-.9240	-.5560	-.0400			-.0810		-.1620	-.2280	-.0920	.0140	.1020
20.000			-.0510	-.8190	-.6240	-.0460			-.0780		-.2010				
40.000			.0220	-.7160	-.4530	-.0600			-.1050		-.2560	-.3110	-.0780	.0170	.0940
55.000			.0260	-.7000	-.1390	-.0140			-.0800		-.2430				
70.000			-.0100	-.7190	-.0980	.0060			-.0830		-.3180	-.7320	-.1080	.0230	.0340
90.000		.6840	-.0710	-.6970	-.0540	.0210			-.0950		-.3710	-.8350	-.1640	.0270	.0160
120.000			-.0830	-.4630	.0120	.1370			-.1060		-.5150	-.8680	-.0750	.0270	.0240
142.000										-1.1000					
150.000			-.0670	-.2750	.1060	.4350			.1110		-.6270	-.5750	-.0920	.0260	.0150
157.000								.3820							
162.000									-.0290						
165.000											-.9070	-.5810	-.0850	.0430	.0150
169.000									-.0480						
172.000							.7550								
180.000	1.1940	.6020	-.1590	-.1290	.1470	.6580			.4420		-1.1960	-.4700	-.0640	.0180	.0090

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1620							-.0840		.0240
40.000	.1360	.0780		-.1810	-.3020	-.2110	-.1210			-.1600
70.000		-.1260	-.1790	-.2060	-.1580	-.1690	-.0310	-.0260		
90.000		-.0780	-.0770	-.1270	-.2380	-.2970	-.0690	-.0480		
105.000				-.0840	-.3130	-.4050	-.0830	-.0830		
110.000									-.2690	
120.000		-.0330	.0970	.0360	-.4740	-.4970	-.0880	-.0940	-.2000	
135.000				.4170	-.0200	-.5290	-.1520	-.1630		
150.000		-.0020	.1400	.2960	.0530	-.3630	-.1830	-.2520		
165.000		.0040		.2440	.1730	-.2500	-.1980	-.3050		
180.000		-.0070	.1050	.1580						

MACH (2) = .902 ALPHAT(5) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1910	.7490	.0000	-.9070	-.5420	-.0240			-.0600		-.1570	-.2050	-.0960	.0180	.1090
20.000			-.0190	-.7980	-.6090	-.0280			-.0610		-.1730				
40.000			.0460	-.6950	-.4900	-.0350			-.0760		-.2270	-.2910	-.0930	.0160	.1020
55.000			.0430	-.6850	-.1190	.0060			-.0570		-.2160				
70.000			.0010	-.7130	-.1070	.0230			-.0600		-.2870	-.7170	-.1470	.0110	.0190
90.000		.6790	-.0760	-.7100	-.0410	.0400			-.0630		-.3340	-.8230	-.1860	.0180	-.0020
120.000			-.1270	-.5480	.0080	.1480			-.0760		-.5380	-.8970	-.1050	.0250	.0130
142.000										-1.0950					
150.000			-.1260	-.4270	.0840	.4310			.0970		-.8520	-.5880	-.1260	.0240	.0100
157.000								.3770							
162.000									-.0520						
165.000											-.9060	-.5870	-.0900	.0440	.0070
169.000									-.0810						
172.000							.7430								
180.000	1.1910	.5460	-.2370	-.2680	.1150	.6430			.4160		-1.2230	-.5030	-.0620	.0210	.0050

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1790							-.0060		.0240
40.000	.1510	.0980		-.1500	-.2830	-.1980	-.1020			-.1620
70.000		-.1770	-.2170	-.2530	-.1630	-.1880	-.0120	-.0130		
90.000		-.1210	-.1040	-.1410	-.2470	-.3190	-.0530	-.0490		
105.000				-.0860	-.3170	-.4010	-.0740	-.0790		
110.000									-.2600	
120.000		-.0620	.0700	.0400	-.4660	-.5200	-.0730	-.0790	-.1910	
135.000				.3620	-.0400	-.5290	-.1360	-.1520		
150.000		-.0250	.1110	.2660	.0170	-.3930	-.1890	-.2530		
165.000		-.0180		.2150	.1420	-.2760	-.2150	-.3050		
180.000		-.0280	.0840	.1290						

MACH (2) = .901 ALPHAT(6) = 2.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2010	.8020	.0000	-.8900	-.5240	-.0150			-.0490		-.1330	-.1760	-.0830	.0190	.1080
20.000			.0180	-.7770	-.5890	-.0190			-.0490		-.1420				
40.000			.0780	-.6730	-.4840	-.0170			-.0530		-.1930	-.2620	-.1090	.0240	.1050
55.000			.0680	-.6720	-.3630	.0170			-.0370		-.1880				
70.000			.0080	-.7080	-.0690	.0350			-.0400		-.2610	-.7200	-.1770	-.0050	-.0010
90.000		.6830	-.0870	-.7260	-.0110	.0560			-.0390		-.3200	-.8240	-.2520	.0050	-.0210
120.000			-.1660	-.6330	.0230	.1600			-.0380		-.5440	-.9250	-.1910	.0190	-.0040

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (2) = .901 ALPHAT(6) = 2.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.0770					
150.000			-.1860	-.5190	.0720	.4290			.0870		-.8830	-.6190	-.1300	.0200	-.0020
157.000								.3760							
162.000									-.0700						
165.000											-.9280	-.6030	-.0970	.0410	-.0090
169.000									-.1170						
172.000							.7280								
180.000	1.2010	.4980	-.3020	-.3980	.0920	.6250			.3880		-1.2530	-.5330	-.0650	.0230	-.0090

X/LB	.5875	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0992
PHI										
.000	.1820							-.0880		-.0030
40.000	.1550	.1180		-.1290	-.2740	-.1970	-.1030			-.1650
70.000		-.2470	-.2630	-.2580	-.1800	-.1390	-.0040	-.0090		
90.000		-.1800	-.1390	-.1550	-.2790	-.2350	-.0450	-.0400		
105.000				-.0990	-.3340	-.3250	-.0610	-.0720		
110.000									-.2500	
120.000		-.1030	.0450	.0530	-.4460	-.4890	-.0650	-.0740	-.1920	
135.000				.3310	-.0690	-.5150	-.1230	-.1590		
150.000		-.0570	.0850	.2560	-.0180	-.3990	-.1650	-.2540		
165.000		-.0440		.1840	.1130	-.2680	-.2210	-.3030		
180.000		-.0520	.0560	.1000						

MACH (2) = .899 ALPHAT(7) = 4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2070	.6030	.0000	-.6770	-.4010	-.0150			-.0450		-.1120	-.1900	-.0720	.0270	.1240
20.000			.0410	-.7640	-.5660	-.0200			-.0420		-.1220				
40.000			.0950	-.6610	-.4410	-.0070			-.0390		-.1670	-.2380	-.1100	.0340	.1210
55.000			.0830	-.6610	-.3880	.0180			-.0290		-.1660				
70.000			.0130	-.7030	-.0430	.0370			-.0280		-.2330	-.7170	-.1900	-.0210	-.0120
90.000		.6730	-.0990	-.7390	.0220	.0650			-.0240		-.3100	-.8260	-.2490	-.0120	-.0350
120.000			-.2040	-.6630	.0460	.1680			-.0060		-.5490	-.9340	-.2720	.0060	-.0140
142.000										-1.0440					
150.000			-.2420	-.5790	.0700	.4230			.0710		-.8960	-.6360	-.1530	.0180	-.0140
157.000								.3760							
162.000									-.0860						
165.000											-.9510	-.5990	-.0900	.0410	-.0150
169.000									-.1480						
172.000							.7090								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + 33 + 79 ORBITER FUSELAGE (RUN801)

MACH (2) = .899 ALPHAT(7) = 4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2070	.4480	-.3630	-.4790	.0810	.6090			.3510		-1.2730	-.5160	-.0620	.0220	-.0100

X/LB	.5873	.6626	.7380	.7869	.8263	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							-.0800		-.0210
40.000	.1650	.1370		-.1140	-.2630	-.1970	-.0940			-.1660
70.000		-.3000	-.3370	-.2730	-.1730	-.1020	-.0030	-.0150		
90.000		-.2340	-.1950	-.1650	-.2680	-.1400	-.0450	-.0440		
109.000				-.1200	-.3300	-.1720	-.0690	-.0760		
110.000									-.2470	
120.000		-.1480	.0150	.0520	-.4360	-.2280	-.0760	-.0810	-.1920	
135.000				.3080	-.0880	-.2870	-.1290	-.1640		
150.000		-.0900	.0550	.2090	-.0450	-.3450	-.1910	-.2560		
165.000		-.0720		.1570	.0940	-.2820	-.2120	-.3010		
180.000		-.0800	.0310	.0720						

MACH (2) = .901 ALPHAT(8) = 6.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2060	.6460	.0000	-.8520	-.1340	-.0160			-.0350		-.0860	-.1150	-.0840	.0470	.1450
20.000			.0720	-.7340	-.3820	-.0800			-.0260		-.1020				
40.000			.1260	-.6320	-.1730	-.0020			-.0230		-.1410	-.2060	-.1130	.0500	.1360
55.000			.1040	-.6320	-.0960	.0160			-.0170		-.1450				
70.000			.0260	-.6900	.0010	.0390			-.0130		-.2140	-.7020	-.2680	-.0300	-.0190
90.000		.8690	-.1000	-.7460	.0560	.0710			-.0020		-.2810	-.8260	-.2640	-.0270	-.0470
120.000			-.2390	-.7250	.0740	.1790			.0260		-.5350	-.9360	-.3020	.0080	-.0220
142.000										-.9980					
150.000			-.2610	-.6410	.0850	.4180			.0660		-.9060	-.6990	-.1580	.0300	-.0090
157.000								-.0780							
162.000									-.0990						
165.000											-.9750	-.6050	-.0950	.0500	-.0050
169.000									-.1720						
172.000							.8940								
180.000	1.2080	.9990	-.4180	-.5620	.0820	.5980			.3270		-1.2550	-.5340	-.0680	.0310	-.0090

X/LB	.5873	.6626	.7380	.7869	.8263	.8646	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							-.0820		-.0250
40.000	.1890	.1610		-.0880	-.2470	-.1690	-.1020			-.1690

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (2) = .901 ALPHAT(8) = 6.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.3280	-.4160	-.2680	-.0680	-.1160	-.0390	-.0360		
90.000		-.2620	-.2630	-.1730	-.1700	-.1670	-.0910	-.0560		
105.000				-.1460	-.2210	-.2060	-.1200	-.0930		
110.000									-.2570	
120.000		-.1770	-.0100	.0750	-.4120	-.2770	-.1140	-.0960	-.2090	
135.000				.2790	-.0970	-.3020	-.1610	-.1790		
150.000		-.1130	.0270	.1950	-.0640	-.2960	-.2130	-.2690		
165.000		-.0980		.1390	.0820	-.2650	-.2210	-.3110		
180.000		-.1000	.0090	.0550						

MACH (2) = .902 ALPHAT(9) = 8.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1906	.1581	.1752	.1958	.2299	.2711	.3203	.3953	.5120
PHI															
.000	1.1860	.8590	.0000	-.8250	-.0130	-.0810			-.0260		-.0820	-.0980	-.0370	.0530	.1900
20.000			.1000	-.7070	.0510	-.0240			-.0290		-.0720				
40.000			.1500	-.6010	.0910	-.0010			-.0110		-.1080	-.1770	-.0830	.0540	.1480
55.000			.1240	-.6150	.0460	.0060			-.0110		-.1230				
70.000			.0950	-.6790	-.0260	.0360			-.0050		-.1850	-.2697	-.3670	-.0570	-.0290
90.000		.6840	-.1110	-.7520	.0520	.0720			.0090		-.2670	-.2930	-.2620	-.0590	-.0670
120.000			-.2760	-.7470	.0800	.1750			.0320		-.3440	-.7480	-.3650	-.0180	-.0960
142.000										-.9350					
150.000			-.3420	-.6840	.0930	.4070			.0500		-.9280	-.6800	-.2430	.0190	-.0200
157.000								.3650							
162.000									-.1170						
165.000											-1.0170	-.5600	-.1690	.0400	-.0150
180.000									-.2030						
172.000								.0670							
180.000	1.1860	.3480	-.4810	-.6310	.0790	.5750			.2960		-.9410	-.6610	-.1720	.0180	-.0150

X/LB	.8873	.8626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2180							-.0060		-.0210
40.000	.1940	.1660		-.0800	-.2490	-.1990	-.1170			-.1630
70.000		-.3360	-.5370	-.2100	-.0510	-.2300	-.1010	-.0700		
90.000		-.2810	-.3390	-.1370	-.1320	-.2880	-.1180	-.0820		
105.000				-.1330	-.1340	-.3240	-.1390	-.1200		
110.000									-.2880	
120.000		-.2080	-.0220	.1200	-.3290	-.4210	-.1270	-.1200	-.2240	
135.000				.2750	-.0890	-.4050	-.1670	-.1880		
150.000		-.1420	.0060	.1670	-.0840	-.3460	-.2210	-.2890		

AMES 11-707 IA9 CEA + SS + T9 ORBITER FUSELAGE

MACH (2) = .902 ALPHAT(9) = 8.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5073	.6626	.7380	.7869	.8283	.8843	.9282	.9639	1.0015	1.0392
PHI										
165.000		-.1130		.1130	.0530	-.2990	-.2390	-.3270		
160.000		-.1130	-.0100	.0330						

MACH (2) = .901 ALPHAT(10) = 10.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1508	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.1800	.8710	.0000	-.7900	.0090	-.0120			-.0040		-.0300	-.0360	-.0040	.0710	.1650
20.000			.1310	-.6800	.0100	-.0070			.0010		-.0400				
40.000			.1760	-.5650	-.0030	.0190			.0170		-.0800	-.1460	-.0690	.0650	.1610
55.000			.1450	-.5860	-.0260	.0130			.0020		-.1000				
70.000			.0440	-.6580	-.0680	.0390			.0080		-.1640	-.6810	-.4380	-.0780	-.0450
90.000		.6590	-.1150	-.7540	.0360	.0770			.0240		-.2400	-.8300	-.2760	-.0830	-.0830
120.000			-.3040	-.7490	.0690	.1760			.0740		-.5370	-.9360	-.3560	-.0350	-.0480
142.000										-.8770					
150.000			-.3790	-.6910	.0930	.3070			.0950		-.9360	-.6140	-.2320	.0110	-.0240
157.000								.3870							
162.000									-.1310						
165.000											-.9950	-.5430	-.1620	.0370	-.0120
169.000									-.2280						
172.000							.6440								
180.000	1.1800	.3010	-.5290	-.6700	.0800	.5570			.2370		-.8160	-.6420	-.1880	.0180	-.0170

X/LB	.5073	.6626	.7380	.7869	.8283	.8843	.9282	.9639	1.0015	1.0392
PHI										
.000	.2290							-.0890		-.0110
40.000	.2000	.1730		-.0840	-.2380	-.1890	-.1090			-.1520
70.000		-.3660	-.3870	-.1700	-.0740	-.3240	-.1490	-.1000		
90.000		-.2830	-.3470	-.0660	-.1380	-.3380	-.1500	-.1030		
105.000				-.0690	-.1270	-.3560	-.1500	-.1370		
110.000									-.2940	
150.000		-.2210	-.0170	.2270	-.2840	-.4670	-.1240	-.1330	-.2520	
155.000				.2880	-.1060	-.4780	-.1730	-.1990		
150.000		-.1480	.0050	.1520	-.1020	-.3840	-.2430	-.2990		
165.000		-.1300		.1070	.0350	-.3240	-.2610	-.3290		
180.000		-.1160	-.0190	.0310						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (3) = 1.104 ALPHAT(1) = -8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2870	.8030	.0000	-.5260	-.2440	.1990			.1390		.0310	-.0770	-.1600	-.2480	.0020
20.000			.1570	-.4540	-.2920	.1910			.1360		.0130				
40.000			.2280	-.3730	-.1780	.1520			.0880		-.0640	-.1420	-.1990	-.2690	-.0830
55.000			.234	-.3480	.1410	.1950			.1190		-.0600				
70.000			.2490	-.3440	.1890	.2180			.1260		-.1260	-.4130	-.3680	-.1130	-.0450
90.000		.8600	.2470	-.2850	.1900	.2150			.1060		-.1540	-.4740	-.4220	-.1120	-.0580
120.000			.2670	-.0310	.2620	.3360			.0900		-.2140	-.5060	-.2920	-.1350	-.0530
142.000										-.6310					
150.000			.3570	.2010	.3920	.6540			.4030		-.4100	-.3220	-.2100	-.1510	-.0530
157.000								.6150							
162.000									.3050						
165.000											-.7190	-.2900	-.1710	-.1330	-.0540
169.000									.3230						
172.000							.9610								
180.000	1.2870	.9150	.3070	.2970	.4480	.6740			.6060		-.6570	-.4820	-.1770	-.1330	-.0520

X/LB	.5875	.6626	.7380	.7869	.8283	.8648	.9282	.9639	1.0015	1.0392
PHI										
.000	.2160							.0100		-.1340
40.000	.1790	.1810		-.2720	-.2540	-.3590	-.3000			-.2360
70.000		.0700	.1290	.0970	.0920	-.1080	-.1760	-.1120		
90.000		.0900	.1930	.1340	.0280	-.1240	-.1620	-.1320		
105.000				.1420	-.0420	-.1380	-.1540	-.1500		
110.000									-.3100	
120.000		.0800	.3310	.2620	-.1730	-.2010	-.1160	-.1360	-.2470	
135.000				.7170	.2740	-.2460	-.1040	-.0950		
150.000		.0420	.3720	.5470	.3910	-.0500	-.0610	-.0910		
165.000		.0280		.5160	.4730	.0480	.0070	-.3080		
180.000		-.0080	.3400	.4440						

MACH (3) = 1.101 ALPHAT(2) = -5.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2910	.8230	.0000	-.5150	-.22'0	.2120			.1510		.0400	-.0780	-.1630	-.2490	.0470
20.000			.1840	-.4370	-.2770	.2100			.1480		.0200				
40.000			.2500	-.3550	-.1730	.1860			.1030		-.0500	-.1420	-.2070	-.2760	-.0280
55.000			.2650	-.3310	.1160	.1940			.1320		-.0450				
70.000			.2580	-.3310	.1790	.1830			.1330		-.1180	-.4320	-.3910	-.1580	-.0560
90.000		.8600	.2320	-.2970	.1920	.1790			.1100		-.1660	-.4930	-.4500	-.1450	-.0680
120.000			.2590	-.0980	.2430	.3130			.0910		-.2560	-.5390	-.3240	-.1480	-.0640

AMES 11-707 1A9 OEA + 33 + T9 ORBITER FUSELAGE

MACH (3) = 1.101 ALPHAT(2) = -5.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6440					
150.000			.2910	.1020	.3500	.6330			.3840		-.4620	-.3790	-.2360	-.1720	-.0740
157.000								.6010							
162.000									.2790						
165.000											-.7660	-.3440	-.2130	-.1590	-.0790
169.000									.2870						
172.000							.9430								
180.000	1.2910	.8690	.2290	.2120	.3960	.8510			.5780		-.7050	-.5440	-.2070	-.1600	-.0780

X/LB	.3673	.6624	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2230							.0100		-.1100
40.000	.1910	.1910		-.2460	-.2140	-.3440	-.2600			-.2180
70.000		.0300	.0860	.0690	.0800	-.1190	-.1950	-.1470		
90.000		.0530	.1340	.1130	.0190	-.1320	-.1920	-.1620		
105.000				.1190	-.0460	-.1480	-.1940	-.1850		
110.000									-.3290	
120.000		.0590	.2950	.2660	-.1620	-.2170	-.1480	-.1560	-.2550	
135.000				.7040	.2620	-.2570	-.1120	-.1070		
150.000		.0450	.3430	.5010	.3620	-.0780	-.0860	-.1160		
165.000		.0310		.4860	.4360	.0210	-.0280	-.3280		
180.000		.0120	.3120	.4180						

MACH (3) = 1.104 ALPHAT(3) = -3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2890	.8590	.0000	-.5050	-.2240	-.0430			.1600		.0360	-.0580	-.1380	-.2320	.0490
20.000			.2010	-.4270	-.2710	-.0260			.1770		.0360				
40.000			.2800	-.3440	-.1810	-.1950			.1320		-.0310	-.1240	-.1950	-.2570	-.0150
55.000			.2730	-.3230	-.1090	-.0370			.1540		-.0260				
70.000			.2600	-.3350	.0970	.0610			.1430		-.1020	-.4360	-.3880	-.1930	-.0890
90.000		.8520	.2210	-.3100	.2500	.1270			.1050		-.1680	-.4960	-.4520	-.1890	-.0710
120.000			.2190	-.2090	.2240	.2990			.0710		-.2910	-.5530	-.3540	-.1530	-.0540
142.000										-.6960					
150.000			.2370	-.0330	.3080	.6150			.3620		-.5070	-.4260	-.3030	-.1770	-.0600
157.000								.5850							
162.000									.2560						
165.000											-.7930	-.3910	-.2530	-.1700	-.0680
169.000									.2530						
172.000							.9250								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (3) = 1.104 ALPHAT(3) = -3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2650	.8130	.1630	.0820	.3390	.8250			.5420		-.7380	-.5950	-.2300	-.1750	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2360							-.0050		-.0850
40.000	.2090	.2090		-.2040	-.1850	-.4220	-.2460			-.2070
70.000		.0050	-.0020	.0330	.0570	-.1420	-.2220	-.1920		
90.000		.0340	.0910	.0900	-.0110	-.1480	-.2270	-.1910		
105.000				.0990	-.0550	-.1490	-.2230	-.2060		
110.000									-.3310	
120.000		.0490	.2650	.2670	-.1590	-.2440	-.1750	-.1710	-.2640	
135.000				.6710	.2400	-.2710	-.1430	-.1300		
150.000		.0470	.3130	.4540	.3290	-.1020	-.1180	-.1460		
165.000		.0450		.4560	.3970	-.0010	-.0600	-.3400		
180.000		.0330	.2780	.3650						

MACH (3) = 1.102 ALPHAT(4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2670	.8790	.0000	-.5170	-.2450	-.0660			.1950		.0730	-.0360	-.1060	-.2090	.0100
20.000			.2060	-.4390	-.2890	-.0730			.1890		.0570				
40.000			.2720	-.3440	-.2000	-.1690			.1510		-.0110	-.1010	-.1620	-.2380	-.0440
55.000			.2810	-.3230	-.1470	-.0510			.1690		-.0040				
70.000			.2610	-.3390	-.1320	.0470			.1340		-.0850	-.4340	-.3800	-.2190	-.0920
90.000		.8450	.2120	-.3290	.2020	.1190			.0290		-.1580	-.4950	-.4460	-.1900	-.0900
120.000			.1850	-.2730	.2140	.2950			.0850		-.2940	-.5610	-.3910	-.1610	-.0630
142.000										-.6680					
150.000			.1840	-.1590	.2730	.6000			.3440		-.5420	-.4590	-.3320	-.1620	-.0610
157.000								.5750							
162.000									.2320						
165.000											-.8160	-.4380	-.2930	-.1870	-.0680
169.000									.2160						
172.000							.9070								
180.000	1.2870	.7880	.1010	-.0590	.2970	.8040			.5080		-.7640	-.6310	-.2530	-.1920	-.0870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2370							-.0030		-.0630
40.000	.2140	.2170		-.1400	-.1410	-.4280	-.2110			-.1800

DATE 13 SEP 73 TABULATED PRESSURE DATA - TREK

AMES 11-707 IA9 OEA + 35 + T9 ORBITER FUSELAGE (RBHB01)

MACH (3) = 1.102 ALPHAT(4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0210	-.0870	-.0050	.0350	-.1570	-.2490	-.2090		
90.000		.0140	.0280	.0530	-.0400	-.1580	-.2520	-.2190		
105.000				.0680	-.0730	-.1580	-.2580	-.2290		
110.000									-.3480	
120.000		.0400	.2110	.2530	-.1600	-.2660	-.2010	-.1890	-.2800	
135.000				.6200	.2190	-.2860	-.1640	-.1530		
150.000		.0530	.2670	.3920	.2920	-.1270	-.1460	-.1750		
165.000		.0480		.4080	.3630	-.0260	-.0920	-.3520		
180.000		.0410	.2320	.3460						

MACH (3) = 1.102 ALPHAT(5) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
.000	1.3140	.9010	.0000	-.5410	-.2970	-.1310			.2090		.0930	-.0080	-.0890	-.1720	.0350
20.000			.2070	-.4570	-.3260	-.1460			.2040		.0730				
40.000			.2840	-.3350	-.2300	-.1400			.1960		.0160	-.0880	-.1270	-.2030	-.0410
55.000			.2970	-.3240	-.1760	-.0290			.1880		.0170				
70.000			.2650	-.3460	-.1980	.0490			.0080		-.0620	-.4160	-.3680	-.2410	-.1030
90.000		.8450	.1980	-.3460	-.1890	.1200			.0350		-.1370	-.4840	-.4290	-.2130	-.1040
120.000			.1480	-.3020	.1620	.2930			.1000		-.2910	-.5600	-.4220	-.1700	-.0710
142.000										-.6770					
150.000			.1370	-.2640	.2450	.5900			.3260		-.5610	-.4820	-.3530	-.1740	-.0600
157.000								.5680							
162.000									.2060						
165.000											-.6310	-.4710	-.3180	-.1840	-.0880
169.000									.1830						
172.000							.8930								
180.000	1.3140	.7200	.0420	-.1580	.2790	.7860			.4730		-.7850	-.6550	-.2640	-.1960	-.0880

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2500							-.0040		-.0910
40.000	.2100	.2170		-.0780	-.0750	-.4140	-.2100			-.1680
70.000		-.0350	-.1720	-.0850	.0110	-.1720	-.2570	-.2320		
90.000		.0070	-.0490	.0070	-.0720	-.1810	-.2770	-.2380		
105.000				.0480	-.0900	-.1830	-.2790	-.2580		
110.000									-.3650	
120.000		.0370	.1520	.2040	-.1600	-.3010	-.2230	-.2200	-.2900	
135.000				.5740	.1980	-.3060	-.1890	-.1780		
150.000		.0500	.2190	.3500	.2540	-.1570	-.1680	-.2010		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RUN801)

MACH (3) = 1.102 ALPHAT(5) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
155.000		.0330		.3650	.3300	- 0580	-.1180	-.3620		
180.000		.0530	.1830	.3040						

MACH (3) = 1.101 ALPHAT(6) = 2.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1939	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3060	.9040	.0000	-.5820	-.3240	-.1830			.2060		.0890	.0080	-.0590	-.1400	.0580
20.000			.2010	-.4760	-.3490	-.1870			.2060		.0790				
40.000			.2890	-.3590	-.2440	-.1710			.2190		.0340	-.0470	-.1080	-.1630	.0380
55.000			.3050	-.3210	-.1920	-.0420			.2230		.0410				
70.000			.2740	-.3410	-.2260	.0440			.1710		-.0370	-.4080	-.3670	-.2690	-.1020
90.000		.8540	.1970	-.3480	-.2040	.1230			.1230		-.1160	-.4830	-.4210	-.2470	-.1120
120.000			.1180	-.3240	-.0980	.2940			.1240		-.2910	-.5630	-.4800	-.1870	-.0810
142.000										-.6840					
150.000			.0870	-.3170	.0340	.5810			.3120		-.5720	-.5030	-.3760	-.1770	-.0640
157.000								.5540							
162.000									.1910						
165.000											-.3450	-.4650	-.3270	-.1870	-.0660
169.000									.1520						
172.000							.8810								
180.000	1.3060	.6880	-.0100	-.2110	.0580	.7730			.4420		-.8050	-.6680	-.2750	-.2030	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							.0010		-.0340
40.000	.1890	.2080		.0150	-.0730	-.2830	-.2120			-.1310
70.000		-.0410	-.2440	-.1580	-.0040	-.1900	-.2580	-.2550		
90.000		.0070	-.1290	-.0400	-.1190	-.1830	-.2770	-.2580		
105.000				.0050	-.1100	-.1840	-.2870	-.2840		
110.000									-.3650	
120.000		.0200	.1280	.2190	-.1610	-.3230	-.2230	-.2400	-.2990	
135.000				.4510	.1760	-.3180	-.2050	-.1900		
150.000		.0320	.1783	.3250	.2230	-.1800	-.1890	-.2210		
165.000		.0350		.3220	.2870	-.0760	-.1390	-.3660		
180.000		.0360	.1440	.2640						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (3) = 1.102 ALPHAT(7) = 4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3170	.9160	.0000	-.5730	-.3210	-.2080			.1880		.0850	.0150	-.0500	-.1020	.0640
20.000			.2000	-.4870	-.3550	-.2130			.1990		.0750				
40.000			.2970	-.3580	-.2500	-.1970			.2250		.0410	-.0380	-.0920	-.1350	.0390
55.000			.3160	-.3130	-.1960	-.0770			.2370		.0540				
70.000			.2800	-.3370	-.2360	.0170			.2080		-.0160	-.4050	-.3710	-.2870	-.0970
90.000		.8500	.1910	-.3560	-.2250	.1110			.1880		-.0970	-.4900	-.4180	-.2840	-.1140
120.000			.0900	-.3440	-.1630	.2940			.1720		-.2900	-.5660	-.4859	-.2080	-.0840
142.000										-.6840					
150.000			.0500	-.3580	-.0490	.5760			.3040		-.5800	-.5270	-.3970	-.1810	-.0560
157.000								.5570							
162.000									.1770						
165.000											-.8580	- 4680	-.3280	- 1820	-.0660
159.000									.1270						
172.000							.6740								
180.000	1.3170	.8500	-.0590	-.3670	-.0390	.7600			.4130		-.8250	-.3610	-.2833	-.2040	-.0530

X/LB	.5873	.6625	.7380	.7889	.8283	.8848	.9292	.9639	1.0015	1.0392
PHI										
.000	.2070							-.0060		-.0210
40.000	.1840	.2080		.0350	-.0670	-.2320	-.1920			-.1330
70.000		-.0760	-.2930	-.2410	-.0620	-.2120	-.2780	-.2740		
90.000		-.0380	-.2070	-.0680	-.1770	-.2150	-.3090	-.3010		
105.000				-.0050	-.1640	-.2150	-.3190	-.3120		
110.000									-.3680	
120.000		-.0060	.0950	.2310	-.1610	-.3690	-.2490	-.2600	-.3150	
135.000				.4170	.1480	-.3380	-.2450	-.2060		
150.000		.0180	.1470	.2840	.1840	-.1990	-.2150	-.2490		
165.000		.0250		.2870	.2360	-.0980	-.1640	-.3690		
180.000		.0280	.1070	.2240						

MACH (3) = 1.105 ALPHAT(8) = 5.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3230	.9240	.0000	-.5900	-.2740	-.1690			.1520		.0810	.0290	-.0220	-.0820	.0790
20.000			.2040	-.4950	-.3620	-.1670			.1740		.0690				
40.000			.3110	-.3600	-.2550	-.1600			.2150		.0430	-.0190	-.0830	-.0870	.0697
55.000			.3320	-.3060	-.1910	-.0870			.2310		.0640				
70.000			.2900	-.3250	-.2440	-.0150			.2140		-.0020	-.3990	-.3710	-.2850	-.0970
90.000		.8530	.1890	-.3570	-.2390	.1010			.2120		-.0820	-.4930	-.4180	-.2850	-.1140
120.000			.0660	-.3680	-.2060	.2970			.2100		-.2890	-.5670	-.4850	-.2770	-.0870

DATE 15 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + 33 + T9 ORBITER FUSELAGE (RPMB01)

MACH (3 = 1.103 ALPHAT(8) = 5.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3290	.3953	.5125
PHI															
142.000										-.6740					
150.000			.0120	-.3990	-.1130	.5760			.3060		-.5840	-.5500	-.4140	-.1790	-.0550
157.000								.5660							
162.000									.1740						
165.000											-.8660	-.4750	-.3330	-.1750	-.0500
169.000									.1110						
172.000							.8710								
180.000	1.3230	.6110	-.1030	-.3140	-.1040	.7450			.3340		-.8400	-.6420	-.2910	-.1550	-.0490

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2160							.0020		-.0350
40.000	.1960	.2250		.0630	-.0510	-.2180	-.1640			-.1320
70.000		-.0990	-.3210	-.2900	-.1410	-.2300	-.3150	-.1170		
90.000		-.0520	-.2450	-.0880	-.2260	-.2280	-.3490	-.3240		
105.000				-.0050	-.1810	-.2820	-.3540	-.3500		
110.000									-.1030	
120.000		-.0160	.0540	.2450	-.1610	-.4110	-.2650	-.2810	-.3000	
135.000				.3720	.1150	-.3420	-.2640	-.2310		
150.000		.0230	.1120	.2520	.1440	-.2130	-.2280	-.2710		
165.000		.0400		.2500	.2220	-.1210	-.1720	-.3810		
180.000		.0440	.0720	.1950						

MACH (3) = 1.102 ALPHAT(9) = 7.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3290	.3953	.5125
PHI															
.000	1.3090	.9360	.0000	-.5920	-.1560	-.1180			.1440		.0890	.0460	.0010	-.0260	-.0940
20.000			.1950	-.5100	-.2760	-.1170			.1510		.0790				
40.000			.3120	-.3570	-.2280	-.1240			.1990		.0590	.0020	-.0400	-.0880	-.0810
55.000			.3410	-.2960	-.1880	-.0940			.2260		.0780				
70.000			.2980	-.3200	-.2490	.0070			.2260		.0180	-.3890	-.3870	-.2380	-.0190
90.000		.8510	.1900	-.3660	-.2390	.1230			.2310		-.0630	-.4910	-.4080	-.3880	-.1350
120.000			.0430	-.3860	-.2230	.3160			.2430		-.2880	-.5710	-.5220	-.3460	-.0890
142.000										-.6530					
150.000			-.0140	-.4250	-.1470	.5740			.2990		-.5870	-.5800	-.4380	-.1880	-.0370
157.000								.5710							
162.000									.1630						
165.000											-.8700	-.4900	-.3500	-.1730	-.0440
169.000									.0920						
172.000							.8620								

MACH (3) = 1.102 ALPHAT(9) = 7.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.5750	- 1420	-.3420	-.1330	.7310			.3720		-.8570	-.5800	-.3120	-.1860	-.0410

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	2220							.0060		-.0270
40.000	.1970	.2330		.0730	-.0480	-.1590	-.1350			-.1260
70.000		-.1410	-.3630	-.3380	-.2010	-.2340	-.1370	-.0270		
90.000		-.0960	-.2800	-.1160	-.2650	-.2320	-.2490	-.0260		
105.000				-.0290	-.1850	-.3040	-.2850	-.0530		
110.000									-.2580	
120.000		- 1350	.0250	.2480	-.1570	-.4170	-.3250	-.0210	-.1620	
135.000				.3380	.1030	-.3550	-.2840	-.1800		
150.000		.0320	.0720	.2480	.1450	-.2260	-.2580	-.3100		
165.000		.1290		.2280	.2730	-.1400	-.1860	-.4130		
180.000		.0370	.0460	.1920						

MACH (3) = 1.102 ALPHAT(10) = 9.950

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.9270	.0000	-.4620	-.1380	-.0960			.1160		.0850	.0550	.0280	.0150	.1130
20.000			.1720	-.4700	-.0680	-.1040			.1220		.0740				
40.000			.3120	-.3610	-.1480	-.1100			.1870		.0640	.0160	-.0110	-.0180	.1020
55.000			.3510	-.2840	-.1470	-.1170			.2320		.0890				
70.000			.3100	-.3070	-.2310	-.0670			.2330		.0350	-.3780	-.3560	-.2860	-.1880
90.000		.8520	.1920	-.3680	-.2370	.0950			.2440		-.0460	-.4860	-.4120	-.3640	-.1700
120.000			.0290	-.3990	-.2460	.3050			.2600		-.2840	-.5700	-.5590	-.2950	-.1030
142.000										-.6260					
150.000			-.0490	-.4500	-.1900	.5620			.2910		-.5920	-.6050	-.4620	-.1940	-.0870
157.000								.5800							
162.000									.1530						
165.000											-.6680	-.4920	-.3730	-.1680	-.0370
169.000									.0720						
172.000							.8510								
180.000	1.2850	.5860	-.1760	-.3790	-.1930	.7070			.3470		-.6680	-.5400	-.3310	-.1790	-.0270

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2280							.0090		-.0200
40.000	.1940	.2290		.0830	-.0490	-.1040	-.1170			- 1170

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + 23 + T9 ORBITER FUSELAGE (RBMB01)

MACH (3) = 1.102 ALPHAT(10) = 9.950

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1970	-.3970	-.3730	-.2520	-.1030	-.1570	-.1870		
90.000		-.0980	-.2990	-.1370	-.2910	-.0200	-.1050	-.1840		
105.000				-.0460	-.1900	-.1480	-.1210	-.2040		
110.000									-.3290	
120.000		-.0510	-.0020	.2540	-.1600	-.4320	-.0430	-.1410	-.2400	
135.000				.3320	.0730	-.3680	-.2030	-.1200		
150.000		-.0160	.0250	.2680	.1070	-.2640	-.2950	-.2360		
165.000		.0210		.2210	.2820	-.1650	-.2120	-.4190		
180.000		.0360	.0100	.1810						

MACH (4) = 1.250 ALPHAT(1) = -8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3590	.9140	.0000	-.3060	-.0770	-.0670			.0620		.1790	.0450	-.0330	-.1410	-.2300
20.000			.3350	-.2400	-.1000	-.0690			.0990		.1580				
40.000			.3890	-.1690	-.0240	-.0480			.1090		.0660	-.0210	-.0900	-.1640	-.1790
55.000			.3970	-.1490	.0420	.1120			.0330		.0500				
70.000			.3860	-.1620	.1190	.2050			.1190		-.0290	-.3010	-.2610	-.0910	-.0250
90.000		.9460	.3630	-.1330	.3050	.2620			.1560		-.1220	-.3470	-.3290	-.0850	-.0350
120.000			.3850	-.0320	.3090	.4250			.2040		-.1920	-.4210	-.2280	-.1130	-.0340
142.000										-.4320					
150.000			.4220	.1460	.4180	.7350			.5130		-.3150	-.2910	-.1970	-.1120	-.0350
157.000								.7170							
162.000									.4190						
165.000											-.5690	-.2470	-.1730	-.1000	-.0380
169.000									.4280						
172.000							1.0400								
180.000	1.3590	.9590	.3670	.2560	.4640	.9410			.6920		-.5010	-.3900	-.1460	-.0980	-.0340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1300							.0340		-.1280
40.000	-.1490	.1630		-.1620	-.1820	-.3190	-.2870			-.1970
70.000		-.1160	-.0050	.0620	.1010	-.0300	-.0980	-.0550		
90.000		-.0850	.0420	.1030	.0500	-.0370	-.1100	-.0640		
105.000				.1110	.0010	-.0620	-.1140	-.0760		
110.000									-.1910	
120.000		-.0540	.1330	.2920	-.0710	-.2040	-.0660	-.0660	-.1340	
135.000				.7510	.3370	-.1560	- 1010	-.0400		
150.000		-.0270	.0640	.4020	.4480	.0480	.0070	-.0410		

MACH (4) = 1.250 ALPHAT(1) = -8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9839	1.0015	1.0392
PHI										
165.000		-.0230		.4610	.5540	.1520	.0900	-.2150		
180.000		-.0250	-.0230	.4100						

MACH (4) = 1.252 ALPHAT(2) = -5.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3800	.9390	.0000	-.2960	-.0670	-.0820			-.0050		.2220	.0700	-.0220	-.1360	-.2320
20.000			.3550	-.2280	-.0690	-.0830			-.0020		.1960				
40.000			.4040	-.1490	-.0170	-.0610			.0270		.0380	-.0290	-.0670	-.1580	-.1910
55.000			.4100	-.1340	.0300	.0980			.0180		.0240				
70.000			.3940	-.1530	.0280	.1900			.1120		-.0720	-.3200	-.2810	-.1170	-.0500
90.000		.9350	.3570	-.1360	.0230	.2550			.1590		-.1700	-.3580	-.3480	-.1040	-.0540
120.000			.3570	-.0660	.2830	.4200			.2150		-.2040	-.4500	-.2640	-.1330	-.0510
142.000										-.4400					
150.000			.3790	.0400	.3660	.7200			.4970		-.3310	-.3190	-.2420	-.1480	-.0510
157.000								.7050							
162.000									.5920						
165.000											-.5920	-.2750	-.2120	-.1380	-.0560
169.000									.5930						
172.000							1.0190								
180.000	1.3800	.9180	.3090	.1430	.4060	.9180			.6590		-.5180	-.4120	-.1780	-.1500	-.0520

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1520							.0550		-.1080
40.000	-.1670	.2070		-.1420	-.1530	-.3110	-.2710			-.1660
70.000		-.1360	-.0260	.0230	.0770	-.0570	-.1210	-.0930		
90.000		-.1080	.0520	.0820	.0220	-.0520	-.1410	-.0950		
105.000				.0880	-.0010	-.0790	-.1430	-.1050		
110.000									-.2020	
120.000		-.0670	.1480	.2940	-.0450	-.2180	-.0950	-.0840	-.1930	
133.000				.7190	.3270	-.1690	-.1050	-.0520		
150.000		-.0420	.0910	.3910	.4170	.0220	-.0130	-.0510		
165.000		-.0390		.4300	.4980	.1290	.0600	-.2280		
180.000		-.0400	-.0400	.3850						

AMES 11-7X7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB01)

MACH (4) = 1.248 ALPHAT(3) = -4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3170	.9700	.0000	-.3180	-.1080	-.0830			-.0310		.0900	.0980	-.0140	-.1150	-.2210
20.000			.3510	-.2440	-.1180	-.0910			-.0300		.0630				
40.000			.4050	-.1650	-.0400	-.0640			-.0410		-.0270	-.0210	-.0510	-.1410	-.1880
55.000			.4130	-.1500	.0040	.0840			.0160		-.0120				
70.000			.3870	-.1650	-.0130	.1750			.1100		-.0770	-.3350	-.3080	-.1350	-.0680
90.000		.9260	.3350	-.1610	-.0090	.2460			.1610		-.1800	-.4030	-.3680	-.1210	-.0710
120.000			.3180	- 1010	.1860	.4130			.2250		-.2220	-.4700	-.3220	-.1580	-.0640
142.000										-.4460					
150.000			.3320	-.0370	.2650	.7030			.4770		-.3560	-.3550	-.2770	-.1750	-.0650
157.000								.6940							
162.000									.3720						
165.000											-.6060	-.3130	-.2460	-.1750	-.0890
169.000									.3640						
172.000							1.0010								
180.000	1.3170	.8720	.2550	.0690	.2930	.8930			.6230		-.5470	-.4440	-.2020	-.1900	-.0810

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	-.0720							.0340	-.0810	
40.000	-.1170	.2370		-.1250	-.1310	-.2990	-.2650		-.1590	
70.000		-.1260	-.0690	-.0170	.0540	-.0770	-.1480	-.1280		
90.000		-.0970	.0010	.0690	-.0060	-.0690	-.1640	-.1300		
105.000				.0950	-.0060	-.0960	-.1690	-.1370		
110.000									-.2170	
120.000		-.0660	.1350	.2830	-.0480	-.2280	-.1090	-.1080	-.1690	
135.000				.6590	.3110	-.1620	-.1130	-.0680		
150.000		-.0540	.1400	.3720	.3840	.0010	-.0380	-.0710		
165.000		-.0520		.4040	.4470	.1090	.0330	-.2420		
180.000		-.0530	-.0090	.3660						

MACH (4) = 1.250 ALPHAT(4) = -1.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3360	.9780	.0000	-.3180	-.1370	-.0090			-.1030		-.1100	.1620	.0250	-.[illegible]90	-.2130
20.000			.3700	-.2410	-.1300	-.0710			-.0970		-.1180				
40.000			.4210	-.1530	-.0470	-.0630			-.0830		-.1200	-.0870	-.012[illegible]	-.1200	-.1650
55.000			.4220	-.1380	.0000	.0640			.0160		-.0690				
70.000			.3880	-.1570	-.0240	.1520			.1010		-.0930	-.3770	-.3230	-.1450	-.0860
90.000		.9180	.3280	-.1620	-.0180	.2320			.1620		-.1740	-.4210	-.3670	-.1370	-.0870
120.000			.2910	-.1200	.1050	.4030			.2360		-.2310	-.4770	-.3610	-.1780	-.0830

MACH (4) = 1.250 ALPHAT(4) = -1.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4570					
150.000			.2900	-.0850	.1990	.6870			.4580		-.3750	-.3340	-.3090	-.2090	-.0770
157.000								.6850							
162.000									.3510						
165.000											-.6180	-.3370	-.2780	-.2100	-.0790
169.000									.3210						
172.000							.9810								
180.000	1.3360	.6240	.2070	.0130	.2170	.8680			.5900		-.5640	-.4360	-.2270	-.2180	-.0720

X/LB	.5875	.6626	.7380	.7863	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0290							.0290	-.0710	
40.000	-.0780	.2540		-.1030	-.0950	-.2930	-.2857		-.1150	
70.000		-.1400	-.1080	-.0570	.0280	-.0880	-.1620	-.1610		
90.000		-.1080	-.0340	.0400	-.0330	-.0860	-.1630	-.1590		
105.000				.0780	-.0510	-.0870	-.1920	-.1650		
110.000									-.2380	
120.000		-.0790	.1150	.2780	-.0340	-.2380	-.1330	-.1330	-.1890	
135.000				.5840	.2890	-.1920	-.1220	-.0850		
150.000		-.0920	.1490	.3210	.5390	-.0250	-.0580	-.0880		
165.000		-.0490		.3570	.3930	.0860	.0050	-.2520		
180.000		-.0530	.0530	.3280						

MACH (4) = 1.249 ALPHAT(5) = .040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3300	1.0480	.0000	-.3470	-.2480	.0280			-.1300		-.1740	.2070	.0710	-.0330	-.1820
20.000			.3850	-.2790	-.2180	.0100			-.1300		-.1730				
40.000			.4510	-.1730	-.1190	.0610			-.1130		-.1840	-.0390	.0070	-.1000	-.1410
55.000			.4500	-.1450	-.0990	.0490			.0320		-.0790				
70.000			.3920	-.1680	-.0840	.1370			.1120		-.1070	-.2960	-.3210	-.1590	-.0950
90.000		.6100	.3140	-.1790	-.0520	.2190			.1710		-.1710	-.4160	-.3520	-.1520	-.0940
120.000			.2550	-.1500	.0320	.3890			.2420		-.2400	-.4360	-.3960	-.1770	-.0910
142.000										-.4630					
150.000			.2370	-.1340	.1310	.6650			.4390		-.3980	-.4140	-.3310	-.2260	-.0810
157.000								.6700							
162.000									.3280						
165.000											-.6350	-.3640	-.3080	-.2380	-.0770
169.000									.3000						
172.000							.9630								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (4) = 1.249 ALPHAT(5) = .040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3300	.7680	.1490	-.0480	.1480	.8390			.5360		-.5880	-.4900	-.2520	-.2480	-.0710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0110							.0240		-.0640
40.000	-.0310	.2630		-.0780	-.0460	-.2930	-.2470			-.0850
70.000		-.1500	-.1410	-.1050	-.0020	-.1120	-.1820	-.1960		
90.000		-.1110	-.0700	.0150	-.0670	-.1100	-.2060	-.1900		
105.000				.0720	-.0560	-.1380	-.2160	- 1990		
110.000									-.2520	
120.000		-.0760	.0780	.2370	-.0540	-.2630	-.1680	-.1510	-.2040	
135.000				.5380	.2600	-.2120	-.1420	-.1070		
150.000		-.0520	.1490	.2920	.2950	-.0330	-.0810	-.1060		
165.000		-.0480		.3970	.3550	.0590	-.0220	-.2650		
180.000		-.0500	.0580	.2950						

MACH (4) = 1.247 ALPHAT(6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3490	1.0620	.0000	-.3540	-.2530	.0300			-.1510		-.2250	.2210	.1110	-.0420	-.1340
20.000			.3890	-.2630	-.2330	.0120			-.1540		-.2080				
40.000			.4620	-.1690	-.1340	-.0190			-.1400		-.1470	-.0870	.0170	-.0830	-.1020
55.000			.4670	-.1420	-.0730	.0160			.0150		-.0920				
70.000			.4180	-.1640	-.1050	.0730			.1060		-.1150	-.3350	-.3140	-.1790	-.1160
90.000		.9480	.3270	-.1680	-.0800	.1900			.1750		-.1690	-.4450	-.3510	-.1820	-.1170
120.000			.2140	-.1740	-.0150	.3710			.2410		-.2510	-.4940	-.4200	-.1870	-.0980
142.000										-.4740					
150.000			.1930	-.1780	.0830	.6450			.4200		-.4150	-.4420	-.3610	-.2180	-.0760
157.000								.8990							
162.000									.3050						
165.000											-.6490	-.3860	-.3370	-.2380	-.0720
169.000									.2690						
172.000							.9410								
180.000	1.3490	.7140	.0970	-.0940	.0930	.6070			.5190		-.6060	-.5100	-.2790	-.2720	-.0820

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0490							.0240		-.0370
40.000	.0010	.2720		-.0610	.0010	-.2790	-.2190			-.0720

MACH (4) = 1.247 ALPHAT(6) = 2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1480	-.1720	-.1620	-.0840	-.1240	-.2020	-.2260		
90.000		-.1180	-.1120	.0050	-.1070	-.1320	-.2270	-.2190		
105.000				.0640	-.0590	-.1760	-.2320	-.2280		
110.000									-.2760	
120.000		-.0810	.0940	.2530	-.0540	-.2750	-.2100	-.1690	-.2270	
135.000				.4200	.2350	-.2230	-.1570	-.1330		
140.000		-.0260	.1340	.2750	.2440	-.0820	-.1030	-.1360		
165.000		-.0520		.2760	.3040	.0290	-.0510	-.2790		
180.000		-.0520	.0740	.2560						

MACH (4) = 1.248 ALPHAT(7) = 4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3980	1.0620	.0000	-.3530	-.2840	.0090			-.1710		-.2160	.2290	.1200	-.0170	-.0930
20.000			.3960	-.2810	-.2540	-.0170			-.1710		-.1850				
40.000			.4730	-.1680	-.1450	-.0120			-.1650		-.1120	.0230	.0970	-.0520	-.0750
55.000			.4780	-.1300	-.0790	.0150			-.0170		-.0210				
70.000			.4240	-.1600	-.1150	.0380			.0820		-.0650	-.3350	-.2930	-.1910	-.1430
90.000		.9490	.3260	-.1980	-.1040	.1140			.1770		-.1740	-.4170	-.3570	-.2070	-.1420
120.000			.1920	-.1980	-.0360	.3510			.2670		-.2700	-.5020	-.3990	-.2070	-.1120
142.000										-.4840					
150.000			.1430	-.2220	.0300	.6290			.4010		-.4390	-.4760	-.3850	-.2190	-.0670
157.000								.6380							
162.000									.2880						
165.000											-.6630	-.4060	-.3620	-.2270	-.0640
180.000									.2360						
172.000							.9280								
180.000	1.3980	.6700	.0360	-.1390	.0390	.7900			.4870		-.6250	-.5330	-.3010	-.2380	-.0580

X/LB	.9672	.9826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1650							.0200		-.0420
40.000	.1270	.9830		-.0180	.0270	-.2880	-.2040			-.0860
70.000		-.1300	-.2040	-.2190	-.1080	-.1410	-.2160	-.2530		
90.000		-.0820	-.1480	-.0210	-.1380	-.1720	-.2450	-.2490		
105.000				.0480	-.0660	-.2040	-.2520	-.2530		
110.000									-.2820	
120.000		-.0800	.0500	.2770	-.0310	-.3000	-.2480	-.1810	-.2360	
135.000				.4200	.2000	-.2500	-.1750	-.1550		
150.000		-.0360	.1270	.2580	.2000	-.1070	-.1230	-.1680		

AMES 11-7D7 IA9 OEA + 83 + T9 ORBITER FUSELAGE (RB\BD1)

MACH (4) = 1.248 ALPHAT(7) = 4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0490		.2630	.2700	.0020	-.0770	-.2890		
180.000		-.0540	.0880	.2290						

MACH (4) = 1.247 ALPHAT(8) = 6.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0539	.0802	.1355	.1508	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3370	1.0960	.0000	-.3710	-.3140	-.0330			-.1650		-.1950	.2290	.1380	.0100	-.0360
20.000			.3950	-.2970	-.2820	-.0500			-.1520		-.2100				
40.000			.4750	-.1690	-.1500	-.0490			-.1120		-.1660	.1110	.0350	-.0190	-.0420
55.000			.4790	-.1250	-.0800	-.0090			-.0490		-.0360				
70.000			.4260	-.1540	-.1230	.0260			.0740		-.0430	-.3850	-.2800	-.1920	-.1080
90.000		.9420	.3230	-.2050	-.1080	.0460			.1710		-.1130	-.4320	-.3330	-.2240	-.1670
120.000			.1780	-.2230	-.0840	.3350			.2590		-.2790	-.4720	-.4340	-.2240	-.1280
142.000										-.4850					
150.000			.1140	-.2520	-.0310	.6170			.3970		-.4920	-.5080	-.3880	-.2090	-.0880
157.000								.6870							
162.000									.2750						
168.000											-.6750	-.4210	-.3710	-.2300	-.0540
169.000									.2160						
172.000							.9390								
180.000	1.3370	.6840	-.0080	-.1910	-.0190	.7390			.4620		-.6390	-.5310	-.3210	-.2630	-.0460

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2160							.0220		-.0350
40.000	.1680	.2670		.1200	.0440	-.2780	-.1670			-.1110
70.000		-.1370	-.2310	-.2610	-.1570	-.1470	-.2290	-.2890		
80.000		-.0770	-.1670	-.0440	-.1550	-.2190	-.2610	-.2720		
105.000				.0290	-.0750	-.2210	-.2840	-.2810		
110.000									-.2980	
120.000		-.0590	.0190	.2700	-.0320	-.3120	-.2720	-.2210	-.2520	
135.000				.3600	.1690	-.2690	-.1900	-.1700		
150.000		-.0460	.1220	.2300	.1620	-.1240	-.1440	-.1870		
165.000		-.0430		.2460	.2570	-.0210	-.1000	-.2940		
180.000		-.0480	.0880	.2090						

DATE 15 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (4) = 1.247 ALPHAT(9) = 8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1591	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3350	1.0850	.0000	-.3860	-.3320	-.0320			-.1450		-.2120	.2520	.1420	.0310	-.0140
20.000			.3880	-.3090	-.2870	-.0470			-.1380		-.2330				
40.000			.4810	-.1700	-.1510	-.0490			-.1150		-.1810	.1810	.0670	.0080	.0040
55.000			.4900	-.1150	-.0770	-.0440			-.0810		-.0550				
70.000			.4370	-.1470	-.1280	-.0010			.0770		-.0490	-.3780	-.2290	-.1980	-.1970
90.000		.9390	.3180	-.2050	-.1120	.0240			.1750		-.1080	-.4440	-.3080	-.2470	-.1970
120.000			.1570	-.2530	-.1090	.3080			.2340		- 2730	-.4870	-.4670	-.2530	-.1390
142.000										-.4840					
150.000			.0660	-.2780	-.0830	.5920			.3970		-.4710	-.5290	-.4060	-.1940	-.0720
157.000								.6870							
162.000									.2710						
165.000											-.6930	-.4420	-.3840	-.1900	-.0570
180.000									.2040						
172.000							.9410								
180.000	1.3350	.6330	-.0380	-.2240	-.0680	.7150			.4450		-.6590	-.5710	-.3310	-.2580	-.0480

X/LB	.5873	.6626	.7380	.7869	.8285	.8848	.9262	.9639	1.0015	1.0382
PHI										
.000	.2270							.0120	-.0300	
40.000	.1780	.2680		.1220	.0500	-.2740	-.1420		-.1140	
70.000		-.1450	-.2830	-.2990	-.1960	-.1680	-.2450	-.2900		
90.000		-.0700	-.1880	-.0710	-.1770	-.2380	-.2670	-.2880		
105.000				.0090	-.0880	-.2380	-.3390	-.2960		
110.000									-.3150	
120.000		-.0600	.0570	.2580	-.0400	-.3150	-.2880	-.2660	-.2610	
135.000				.3030	.1650	-.2790	-.2000	-.1820		
150.000		-.0370	.1100	.2080	.1650	-.1310	-.1620	-.2000		
165.000		-.0300		.2130	.2400	-.0280	-.0970	-.3080		
180.000		-.0390	.0880	.1770						

MACH (4) = 1.248 ALPHAT(10) = 9.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1591	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3450	1.0930	.0000	-.4030	-.2430	-.0090			-.1320		-.2220	.2380	.1240	.0410	.0090
20.000			.3750	-.3380	-.2630	-.0210			-.1330		-.2330				
40.000			.4770	-.1770	-.1440	-.0140			-.1130		-.1450	.1780	.0640	.0250	.0070
55.000			.4880	-.1190	-.0710	-.0440			-.0990		-.0650				
70.000			.4390	-.1440	-.1320	-.0170			.0450		-.0680	-.2650	-.2220	-.2130	-.2180
90.000		.9300	.3090	-.2120	-.1240	.0050			.1750		-.1050	-.4380	-.2920	-.2720	-.2340
120.000			.1330	-.2610	-.1310	.2780			.2270		-.2540	-.4980	-.4290	-.3010	-.1490

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

MACH (4) = 1.248 ALPHAT(10) = 9.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4740					
150.000			.0540	-.3040	-.1270	.5540			.3950		-.4780	-.5490	-.4330	-.1990	-.0860
157.000								.7090							
162.000									.2670						
165.000											-.6950	-.4500	-.4040	-.1790	-.0660
169.000									.1920						
172.000							.9250								
180.000	1.3450	.5970	-.0740	-.2560	-.1080	.6560			.4310		-.3690	-.5780	-.3430	-.1970	-.0580

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2320							.0110		-.0120
40.000	.1980	.2670		.1340	.0520	-.2800	-.1190			-.0930
70.000		-.1410	-.2880	-.3350	-.2380	-.2230	-.2340	-.1730		
90.000		-.0810	-.2300	-.0980	-.1940	-.2520	-.3000	-.2460		
105.000				-.0070	-.0960	-.2530	-.3570	-.2500		
110.000									-.2510	
120.000		-.0510	.0450	.2360	-.0380	-.3230	-.2870	-.2640	-.1760	
135.000				.2760	.1410	-.2830	-.2060	-.1980		
150.000		-.0380	.0730	.2160	.1700	-.1480	-.1680	-.2260		
165.000		-.0200		.2000	.3050	-.0510	-.1190	-.3210		
180.000		-.0200	.0740	.1770						

AMES 11-707 IA9 OEA + 33 + 79 ORBITER FUSELAGE (RSMB02) (07 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .900
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .998 ALPHAT(1) = -8.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0640	.3720	.0000	-.7110	-.1330	-.0750			-.0870		-.1010	-.0850	-.0560	-.0160	.0090
20.000			-.4400	-.6530	-.1360	-.0810			-.0910		-.1160				
40.000			-.3220	-.5360	-.1420	-.1150			-.1310		-.1830	-.1430	-.0740	-.0350	-.0010
55.000			-.2540	-.4650	-.0920	-.0720			-.1020		-.1490				
70.000			-.2130	-.4010	-.0910	-.0520			-.1050		-.1830	-.3830	-.0750	.0230	.0553
90.000		.3180	-.1690	-.3410	-.0590	-.0740			-.1380		-.2110	-.4060	-.0890	.0010	.0310
120.000			.0040	-.1200	.0440	.0050			-.2540		-.2260	-.2630	-.0820	-.0210	.0210
142.000										-.4120					
150.000			.1500	.0870	.2060	.3310			-.1090		-.3670	-.1510	-.0660	-.0140	.0210
157.000								.2300							
162.000									-.1820						
165.000											-.3800	-.1230	-.0550	-.0090	.0120
169.000									-.1230						
172.000							.6590								
180.000	1.0840	.6940	.1520	.1760	.2760	.5940			.2730		-.4810	-.1150	-.0940	-.0150	.0210

X/LB	.5975	.8626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0290							-.0750		.1140
40.000	-.0110	-.1300		-.2930	-.2910	-.1630	-.1350			-.1550
70.000		-.0240	-.0730	-.0980	-.0210	-.0800	-.0480	-.0840		
90.000		.0050	-.0130	-.0770	-.0880	-.1020	-.0870	-.1170		
105.000				-.0940	-.1490	-.1140	-.1180	-.1510		
110.000									-.2830	
120.000		.0840	.1210	-.0750	-.4620	-.2140	-.1310	-.1430	-.1980	
135.000				.4630	-.0310	-.2520	-.1740	-.1870		
150.000		.0550	.1750	.3710	.1120	-.1650	-.1700	-.2230		
165.000		.0540		.2810	.2400	-.1230	-.1790	-.2810		
180.000		.0570	.1370	.1800						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM802)

MACH (1) = .998 ALPHAT(2) = -6.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0560	.4020	.0000	-.6990	-.1390	-.0830			-.0950		-.1060	-.0920	-.0620	-.0200	.0080
20.000			-.4100	-.6450	-.1410	-.0910			-.0960		-.1210				
40.000			-.2940	-.5350	-.1450	-.1180			-.1270		-.1800	-.1450	-.0720	-.0340	.0030
55.000			-.2360	-.4730	-.0950	-.0700			-.0970		-.1450				
70.000			-.2150	-.4090	-.0940	-.0550			-.1010		-.1840	-.3970	-.0380	.0050	.0340
90.000		.5220	-.1810	-.3580	-.0570	-.0670			-.1330		-.2110	-.4240	-.0940	-.0130	.0130
120.000			-.0320	-.1480	.0360	.0090			-.2380		-.2430	-.2720	-.0870	-.0300	.0100
142.000										-.4410					
150.000			.0910	.0410	.1760	.3160			-.1410		-.4010	-.1710	-.0760	-.0260	.0070
157.000								.2100							
162.000									-.2330						
165.000											-.4100	-.1410	-.0660	-.0260	-.0020
169.000									-.1840						
172.000							.6370								
180.000	1.0580	.6490	.0790	.1190	.2370	.5720			.2220		-.4890	-.1350	-.1050	-.0290	.0080

X/LB	.5873	.6626	.7380	.7869	.8283	.8348	.9262	.9639	1.0015	1.0392
PHI										
.000	.0550							-.0890		.0800
40.000	.0010	-.1070		-.2920	-.3080	-.2010	-.1150			-.1650
70.000		-.0800	-.1000	-.1120	-.0320	-.0660	-.0540	-.0880		
90.000		-.0290	-.0410	-.0830	-.0760	-.1040	-.1010	-.1230		
105.000				-.0900	-.1540	-.1130	-.1210	-.1500		
110.000									-.2570	
125.000		.0020	.1120	-.0530	-.4370	-.2120	-.1310	-.1420	-.1960	
135.000				.4450	-.0350	-.2480	-.1690	-.1810		
157.000		.0310	.1580	.3370	.0840	-.1820	-.1780	-.2300		
165.000		.0340		.2560	.2090	-.1470	-.1940	-.2830		
180.000		.0370	.1190	.1590						

MACH (1) = .999 ALPHAT(3) = -3.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0680	.4400	.0000	-.6930	-.1440	-.0830			-.0920		-.1070	-.0930	-.0690	-.0190	.0160
20.000			-.3860	-.6340	-.1460	-.0890			-.0950		-.1230				
40.000			-.2750	-.5190	-.1450	-.1060			-.1210		-.1780	-.1460	-.0720	-.0310	.0140
55.000			-.2210	-.4570	-.0880	-.0620			-.0940		-.1520				
70.000			-.1970	-.4070	-.0920	-.0480			-.0990		-.1880	-.4050	-.1080	-.0190	.0140
90.000		.5260	-.1860	-.3590	-.0540	-.0580			-.1240		-.2110	-.4380	-.1080	-.0180	.0170
120.000			-.0700	-.1690	.0310	.0210			-.2170		-.2610	-.2460	-.0920	-.0280	.0140

AMES 11-FT TWT SEC 574 - 10 *ISOLATED FUSELAGE ASSEMBLY

MACH (1) = .595 ALPHAT(3) = -3.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5180
PHI															
147.000										-.4610					
150.000			.0370	-.0030	.1470	.3100			-.1630		-.4430	-.1845	-.0820	-.0350	-.0070
157.000								.1930							
162.000									-.2590						
165.000												-.4440	-.1550	-.0770	-.0345	-.0150
169.000									-.2400						
172.000							.6130								
180.000	-.0040	.5930	.0050	.0750	.1960	.5510			.1800		-.4200	-.1490	-.1300	-.0190	-.0080
* ..	.8[illegible]	.9625	.7390	.7869	.8283	.9348	.9262	.9839	1.0015	1.0392					
PHI															
.000	.1457							-.0890		.0390					
40.000	.0170	-.0930		-.2640	-.3190	-.2020	-.1050			-.1550					
70.000		-.0910	-.1320	-.1370	-.0320	-.0640	-.0300	-.0810							
90.000		.1510	-.0630	-.0950	-.0910	-.1090	-.0990	-.1190							
103.000				-.0940	-.1830	-.1430	-.1250	-.1910							
110.000									-.2470						
120.000		-.0150	.0970	-.0290	-.4160	-.2130	-.1280	-.1330	-.1870						
135.000				.4230	-.0440	-.2460	-.1670	-.1850							
150.000		.0140	.1380	.2980	.0520	-.1950	-.1690	-.2310							
165.000		.0100		.2390	.1760	-.1670	-.2090	-.2740							
187.000		.0730	.0960	.1410											

MACH (1) = .598 ALPHAT(4) = -1.910

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5180
PHI															
.000	1.0440	.4780	.0000	-.6780	-.1350	-.0770			-.0890		-.1100	-.0980	-.0380	-.0130	.0280
20.000			-.3490	-.6140	-.1370	-.0810			-.0890		-.1190				
40.000			-.2360	-.5070	-.1320	-.0980			-.1080		-.1690	-.1430	-.0680	-.0220	.0270
55.000			-.1910	-.4540	-.0850	-.0560			-.0850		-.1420				
70.000			-.1850	-.3960	-.0920	-.0420			-.0900		-.1660	-.4160	-.1130	-.0260	-.0080
90.000		.5270	-.1890	-.3620	-.0490	-.0460			-.1180		-.2110	-.4550	-.1150	-.0290	-.0250
120.000			-.1090	-.1990	.0230	.0240			-.1540		-.2930	-.5017	-.0980	-.0400	-.0120
142.000										-.4850					
150.000			-.0240	-.0490	.1250	.2970			-.1890		-.4790	-.1940	-.0920	-.0470	-.0160
157.000								.1790							
162.000									-.3160						
165.000											-.4650	-.1710	-.0980	-.0380	.0230
169.000									-.3000						
172.000							.5950								

AMES 11-707 IA9 02A + 33 + 79 ORBITER FUSELAGE (RBM002)

MACH (1) = .598 ALPHAT(4) = -1.910

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0440	.9430	-.0640	.0160	.1600	.5320			.1330		.8400	-.1650	-.1270	-.0510	-.0190
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0630							-.0880		.0370					
40.000	.0340	-.0500		-.2630	-.2890	-.1930	-.0910			-.1450					
70.000		-.1350	-.1550	-.1370	-.0350	-.0600	-.0500	-.0810							
90.000		-.0850	-.0800	-.0960	-.0890	-.1080	-.1010	-.1140							
138.000				-.0910	-.1490	-.1420	-.1200	-.1450							
113.000									-.2500						
120.000		-.0330	.0830	-.0010	-.3970	-.2010	-.1290	-.1280	-.1650						
135.000				.4140	-.0570	-.2420	-.1590	-.1760							
150.000		-.0040	.1270	.2530	.0230	-.2130	-.1940	-.2400							
165.000		.0030		.2140	.1510	-.1750	-.2140	-.2740							
180.000		.0020	.0830	.1220											

MACH (1) = .599 ALPHAT(5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0420	.5000	.0000	-.6520	-.1310	-.0720			-.0880		-.1040	-.0890	-.0550	-.0070	.0300
20.000			-.3080	-.5990	-.1270	-.0780			-.0840		-.1130				
40.000			-.2070	-.4830	-.1190	-.0880			-.1000		-.1630	-.1370	-.0640	-.0180	.0320
55.000			-.1660	-.4380	-.0820	-.0400			-.0800		-.1440				
70.000			-.1740	-.3960	-.0960	-.0410			-.0890		-.1860	-.4270	-.1270	-.0410	-.0280
90.000		.5310	-.2010	-.3680	-.0480	-.0410			-.1100		-.2180	-.4670	-.1230	-.0160	-.0440
120.000			-.1510	-.2140	.0160	.0290			-.1750		-.3050	-.3790	-.1120	-.0 0	-.0280
142.000										-.5070					
150.000			-.0880	-.0930	.0930	.2870			-.2170		-.5180	-.2050	-.1030	-.0510	-.0270
157.000								.1660							
162.000									-.3620						
165.000											-.4810	-.1670	-.1000	-.0500	-.0240
169.000									-.3560						
172.000							.5740								
180.000	1.0420	.4810	-.1400	-.0280	.1260	.5120			.0880		-.5590	-.1760	-.1330	-.0590	-.0240
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0730							-.0870		-.0060					
40.000	.0320	-.0320		-.2370	-.2870	-.1770	-.0950			-.1450					

MACH (1) = .599 ALPHA(5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1700	-.1890	-.1550	-.0400	-.0710	-.0480	-.0810		
90.000		-.1160	-.0930	-.1060	-.0890	-.1170	-.0990	-.1170		
105.000				-.0880	-.1450	-.1190	-.1300	-.1500		
110.000									-.2490	
120.000		-.0590	.0690	.0120	-.3740	-.2080	-.1280	-.1260	-.1830	
135.000				.3960	-.0670	-.2440	-.1600	-.1790		
150.000		-.0170	.1060	.2300	-.0110	-.2270	-.2010	-.2460		
165.000		-.0130		.1910	.1290	-.1880	-.2300	-.2740		
180.000		-.0140	.0680	.0980						

MACH (1) = .599 ALPHA(6) = 2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0073	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0870	.7420	.0000	-.6270	-.1190	-.0620			-.0730		-.0910	-.0820	-.0480	-.0040	.0420
20.000			-.2680	-.5680	-.1200	-.0700			-.0720		-.1020				
40.000			-.1690	-.4600	-.1090	-.0710			-.0830		-.1490	-.1280	-.0560	-.0140	.0410
55.000			-.1370	-.4240	-.0710	-.0400			-.0740		-.1390				
70.000			-.1540	-.3880	-.0930	-.0390			-.0860		-.1860	-.4450	-.1450	-.0540	-.0480
90.000		.5270	-.2060	-.3770	-.0440	-.0310			-.1000		-.2140	-.4920	-.1360	-.0630	-.0730
120.000			-.1620	-.2410	.0070	.0370			-.1500		-.3320	-.3290	-.1190	-.0650	-.0460
142.000										-.5280					
150.000			-.1490	-.1370	.0680	.2790			-.2460		-.5530	-.2190	-.1080	-.0620	-.0360
157.000								.1540							
162.000									-.4070						
165.000											-.5080	-.1970	-.1020	-.0600	-.0450
169.000									-.4130						
172.000							.5530								
180.000	1.0870	.4270	-.2090	-.0830	.0940	.4910			.0390		-.5860	-.1830	-.1410	-.0660	-.0420

X/LB	.5873	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0850							-.0910		-.0370
40.000	.0620	-.0090		-.2130	-.2710	-.1680	-.0860			-.1540
70.000		-.2110	-.2120	-.1620	-.0400	-.0670	-.0460	-.0740		
90.000		-.1540	-.1140	-.1080	-.0920	-.1170	-.1020	-.1170		
105.000				-.0920	-.1450	-.1400	-.1260	-.1490		
110.000									-.2470	
120.000		-.0800	.0590	.0260	-.3430	-.2100	-.1260	-.1260	-.1770	
135.000				.3630	-.0800	-.2460	-.1600	-.1800		
150.000		-.0350	.0870	.2100	-.0390	-.2350	-.2070	-.2470		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM802)

MACH (1) = .599 ALPHAT(6) = 2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0300		.1640	.1070	-.2010	-.2330	-.2690		
180.000		-.0270	.0500	.0720						

MACH (1) = .597 ALPHAT(7) = 4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0550	.6060	.0000	-.5910	-.1030	-.0470			-.0570		-.0760	-.0640	-.0340	.0130	.0370
20.000			-.2200	-.5270	-.1040	-.0540			-.0590		-.0850				
40.000			-.1250	-.4300	-.0930	-.0480			-.0610		-.1310	-.1140	-.0390	.0090	.0390
55.000			-.1100	-.3960	-.0600	-.0270			-.0620		-.1260				
70.000			-.1400	-.3710	-.0960	-.0250			-.0770		-.1820	-.4400	-.1490	-.0650	-.0650
90.000		.5280	-.2120	-.3720	-.0440	-.0170			-.0860		-.2090	-.4940	-.1490	-.0720	-.0850
120.000			-.2260	-.2680	.0020	.0470			-.1230		-.3550	-.3400	-.1290	-.0730	-.0640
142.000										-.5440					
150.000			-.2030	-.1780	.0500	.2700			-.2630		-.5830	-.2240	-.1130	-.0630	-.0460
157.000								.1440							
162.000									-.4370						
165.000											-.5090	-.1990	-.1030	-.0620	-.0540
169.000									-.4620						
172.000							.5370								
180.000	1.0550	.3700	-.2760	-.1210	.0680	.4740			-.0040		-.5850	-.1820	-.1360	-.0860	-.0470

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1030							-.0910		-.0460
40.000	.0860	.0250		-.1920	-.2710	-.1690	-.0910			-.1460
70.000		-.2470	-.2340	-.1740	-.0350	-.0690	-.0470	-.0710		
90.000		-.1790	-.1380	-.1070	-.0880	-.1150	-.0990	-.1130		
105.000				-.0810	-.1290	-.1130	-.1200	-.1450		
110.000									-.2370	
120.000		-.0970	.0440	.0580	-.3280	-.2050	-.1210	-.1210	-.1710	
135.000				.3210	-.0910	-.2410	-.1640	-.1810		
150.000		-.0500	.0770	.1860	-.0570	-.2360	-.2120	-.2460		
165.000		-.0420		.1460	.0720	-.2050	-.2320	-.2640		
180.000		-.0350	.0370	.0520						

AMES 11-FOOT TAS 02A + 55 + 79 ORBITER FUSELAGE (RBMSL2)

MACH (1) = .599 ALPHAT(8) = 6.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	1.0700	.6180	.0000	-.5690	-.0950	-.0380			-.0500		-.0680	-.0590	-.0260	.0210	.0700
20.000			-.1830	-.5030	-.0940	-.0440			-.0490		-.0800				
40.000			-.0850	-.4100	-.0720	-.0350			-.0500		-.1230	-.1120	-.0340	.0150	.0890
55.000			-.0770	-.3770	-.0570	-.0280			-.0630		-.1260				
70.000			-.1270	-.3760	-.1030	-.0290			-.0740		-.1770	-.4500	-.1660	-.0850	-.0860
90.000		.5240	-.2180	-.3860	-.0490	-.0160			-.0870		-.2160	-.5180	-.1650	-.0940	-.1100
120.000			-.2690	-.2950	-.0100	.0430			-.1120		-.3820	-.3630	-.1460	-.0930	-.0860
142.000										-.5690					
150.000			-.2630	-.2280	.0250	.2630			-.2910		-.6300	-.2400	-.1200	-.0760	-.0610
157.000								.1350							
162.000									-.4790						
165.000											-.5030	-.2140	-.1180	-.0700	-.0650
169.000									-.5220						
172.000							.5160								
180.000	1.0700	.6610	-.3520	-.1740	.0370	.4550			-.0470		-.5970	-.1380	-.1420	-.0740	-.0630

X/LB	.5873	.6678	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1150							-.0900		-.0290
40.000	.0950	.0430		-.1720	-.2540	-.1590	-.0770			-.1420
70.000		-.2910	-.2630	-.1880	-.0370	-.0870	-.0420	-.0710		
90.000		-.2170	-.1560	-.1140	-.0860	-.1160	-.1010	-.1130		
105.000				-.0850	-.1280	-.1430	-.1210	-.1440		
110.000									-.2350	
120.000		-.1260	.0310	.0850	-.3110	-.2120	-.1250	-.1290	-.1850	
135.000				.2920	-.1110	-.2510	-.1680	-.1920		
150.000		-.0700	.0560	.1580	-.0850	-.2520	-.2170	-.2520		
165.000		-.0600		.1230	.0600	-.2200	-.2450	-.2720		
180.000		-.0530	.0250	.0270						

MACH (1) = .597 ALPHAT(9) = 8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	1.0820	.6660	.0000	-.5270	-.0770	-.0240			-.0370		-.0560	-.0470	-.0140	.0310	.0790
20.000			-.1370	-.4740	-.0770	-.0300			-.0340		-.0590				
40.000			-.0510	-.3790	-.0560	-.0140			-.0340		-.1030	-.0960	-.0210	.0240	.0860
55.000			-.0430	-.3530	-.0490	-.0250			-.0540		-.1220				
70.000			-.1120	-.3550	-.1090	-.0200			-.0660		-.1710	-.4560	-.1790	-.0980	-.1000
90.000		.5240	-.2260	-.3930	-.0520	-.0120			-.0770		-.2180	-.5310	-.1790	-.1110	-.1340
120.000			-.3030	-.3190	-.0240	.0440			-.0830		-.4100	-.3750	-.1650	-.1070	-.1020

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (1) = .597 ALPHAT(9) = 8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5820					
150.000			-.3270	-.2710	.0050	.2560			-.3160		-.6320	-.2400	-.1260	-.0820	-.0750
157.000								.1260							
162.000									-.5080						
165.000											-.5370	-.2170	-.1170	-.0680	-.0690
169.000									-.5670						
172.000							.4970								
180.000	1.0620	.2460	-.4260	-.2010	.0130	.4400			-.0860		-.5970	-.1910	-.1390	-.0710	-.0650

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1500							-.0920		-.0280
40.000	.1120	.0670		-.1550	-.2460	-.1460	-.0610			-.1320
70.000		-.3230	-.2840	-.1920	-.0330	-.0640	-.0420	-.0650		
90.000		-.2470	-.1730	-.1150	-.0860	-.1210	-.0960	-.1140		
105.000				-.0750	-.1200	-.1250	-.1240	-.1470		
110.000									-.2320	
120.000		-.1440	.0240	.1130	-.2920	-.2090	-.1260	-.1260	-.1810	
135.000				.2700	-.1280	-.2560	-.1750	-.1960		
150.000		-.0890	.0440	.1370	-.1020	-.2570	-.2220	-.2510		
165.000		-.0700		.1000	.0480	-.2300	-.2380	-.2750		
180.000		-.0620	.0150	.0130						

MACH (2) = .903 ALPHAT(1) = -8.000

SECTION (1)ORBITER FUS DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2020	.6070	.0000	-.9570	-.2200	-.0850			-.1410		-.2800	-.2710	-.0580	.0150	.0710
20.000			-.1400	-.8660	-.2710	-.0950			-.1430		-.3080				
40.000			-.0620	-.7800	-.1580	-.1310			-.1950		-.3780	-.3530	-.0510	.0040	.0710
55.000			-.0360	-.7450	-.0950	-.0750			-.1650		-.3560				
70.000			-.0320	-.6850	-.0890	-.0370			-.1610		-.4060	-.7850	-.0790	.0850	.0990
90.000		.6840	-.0280	-.5690	-.0450	-.0360			-.1900		-.4140	-.8320	-.0820	.0490	.0730
120.000			.0760	-.1980	.0640	.0970			-.2170		-.4410	-.7750	-.0240	.0210	.0610
142.000										-1.0790					
150.000			.1770	.0540	.2280	.4610			.1630		-.7280	-.4440	-.0240	.0320	.0630
157.000								.4050							
162.000									.0600						
165.000											-.8800	-.4760	.0220	.0460	.0520
169.000									.0890						
172.000							.8040								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (2) = .903 ALPHAT(1) = -8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2020	.7680	.1470	.1640	.2970	.7190			.4240		-1.0790	-.3150	-.0110	.0270	.0970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1200							-.0900		-.0090
40.000	.0970	-.0020		-.3200	-.3450	-.2430	-.1940			-.2000
70.000		.0440	-.0250	-.1160	-.1050	-.1540	-.0480	-.0560		
90.000		.0680	.0490	-.0660	-.1790	-.2240	-.0900	-.0720		
105.000				-.0470	-.2870	-.2520	-.1100	-.1080		
110.000									-.3040	
120.000		.0760	.1930	.0200	-.5140	-.3110	-.1410	-.1400	-.2410	
135.000				.5380	.0510	-.4800	-.2080	-.2100		
150.000		.0940	.2370	.4350	.1890	-.2220	-.1510	-.2550		
165.000		.0910		.3620	.3010	-.1280	-.1240	-.3280		
180.000		.0930	.2010	.2660						

MACH (2) = .901 ALPHAT(2) = -8.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2130	.6290	.0000	-.9500	-.5660	-.0770			-.1340		-.2670	-.2110	-.0840	.0130	.0740
20.000			-.1160	-.8570	-.6280	-.0870			-.1370		-.2930				
40.000			-.0430	-.7670	-.2450	-.1170			-.1800		-.3620	-.2900	-.0560	.0030	.0720
55.000			-.0300	-.7330	-.1450	-.0610			-.1470		-.3340				
70.000			-.0280	-.7050	-.1130	-.0290			-.1450		-.3980	-.7600	-.0650	.0500	.0790
90.000		.6790	-.0410	-.6190	-.0620	-.0240			-.1680		-.4040	-.8340	-.0840	.0450	.0540
120.000			.0280	-.2600	.0440	.1070			-.1920		-.4530	-.7870	-.0230	.0240	.0520
142.000										-1.0960					
150.000			.1050	-.0140	.1920	.4520			.1440		-.7530	-.4690	-.0450	.0500	.0490
157.000								.3980							
162.000									.0310						
165.000											-.8670	-.5080	.0050	.0480	.0400
169.000									.0460						
172.000							.7900								
180.000	1.2130	.7080	.0800	.0850	.2520	.6980			.3860		-1.1140	-.3480	-.0230	.0220	.0490

X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1240							-.0820		.0020
40.000	.1020	.0180		-.2730	-.3260	-.2300	-.1680			-.1700

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (2) = .901 ALPHAT(2) = -6.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0060	-.0610	-.1420	-.1180	-.1640	-.0450	-.0450		
90.000		.0290	.0170	-.0830	-.1890	-.2280	-.0790	-.0700		
105.000				-.0580	-.2870	-.2820	-.1010	-.1040		
110.000									-.2920	
120.000		.0550	.1670	.0340	-.4990	-.3590	-.1290	-.1290	-.2240	
135.000				.4970	.0370	-.4390	-.1850	-.1890		
150.000		.0700	.2120	.3960	.1550	-.2490	-.1630	-.2480		
165.000		.0720		.3300	.2640	-.1570	-.1460	-.3160		
180.000		.0690	.1770	.2400						

MACH (2) = .900 ALPHAT(3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2150	.6560	.0000	-.9410	-.5740	-.0650			-.1140		-.2490	-.2290	-.0760	.0110	.0780
20.000			-.0910	-.8420	-.6420	-.0740			-.1180		-.2640				
40.000			-.0220	-.7500	-.2230	-.0980			-.1530		-.3250	-.3090	-.0800	.0040	.0760
55.000			-.0070	-.7220	-.1630	-.0470			-.1170		-.3050				
70.000			-.0210	-.7220	-.1260	-.0200			-.1190		-.3750	-.7570	-.1010	.0400	.0620
90.000		.6810	-.0520	-.6660	-.0770	-.0080			-.1390		-.3920	-.8450	-.1030	.0330	.0390
120.000			-.0180	-.3330	.0270	.1140			-.1590		-.4800	-.8260	-.0300	.0250	.0410
142.000										-1.1080					
150.000			.0390	-.0980	.1530	.4430			.1310		-.7830	-.5190	-.0750	.0260	.0360
157.000								.3870							
162.000									.0060						
165.000											-.8610	-.5330	-.0300	.0470	.0300
169.000									.0090						
172.000							.7740								
180.000	1.2150	.6810	-.0260	.0080	.2050	.6820			.3550		-1.1540	-.4090	-.0300	.0170	.0310

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1380							-.0790		.0220
40.000	.1090	.0350		-.2290	-.3250	-.2230	-.1500			-.1560
70.000		-.0390	-.1030	-.1710	-.1350	-.1700	-.0380	-.0400		
90.000		-.0090	-.0170	-.1000	-.2080	-.2250	-.0790	-.0630		
105.000				-.0660	-.3040	-.2550	-.0960	-.0940		
110.000									-.2820	
120.000		.0240	.1450	.0400	-.4880	-.3940	-.1160	-.1100	-.2150	
135.000				.4520	.0200	-.4240	-.1730	-.1770		
150.000		.0450	.1830	.3570	.1170	-.2790	-.1680	-.2470		

AMES 11-70Y IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (2) = .900 ALPHAT(3) = -4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0470		.2950	.2260	-.1950	-.1660	-.3050		
180.000		.0460	.1500	.2070						

MACH (2) = .896 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2780	.6960	.0000	-.9290	-.5690	-.0460			-.0940		-.2120	-.2280	-.0890	.0160	.0850
20.000			-.0620	-.8280	-.6330	-.0540			-.0950		-.2330				
40.000			.0070	-.7300	-.4840	-.0750			-.1240		-.2860	-.3010	-.0680	.0100	.0820
55.000			.0150	-.7130	-.1670	-.0250			-.0890		-.2670				
70.000			-.0100	-.7250	-.1330	-.0040			-.0920		-.3400	-.7390	-.1010	.0310	.0460
90.000		.6840	-.0630	-.6900	-.0820	.0100			-.1080		-.3740	-.6410	-.1270	.0290	.0270
120.000			-.0620	-.4240	.0100	.1270			-.1270		-.3010	-.6480	-.0480	.0260	.0330
142.000										-1.1080					
150.000			-.0290	-.2110	.1260	.4570			.1190		-.8110	-.5340	-.0920	.0270	.0270
157.000								.3820							
162.000									-.0130						
165.000											-.6720	-.5550	-.0730	.0470	.0250
169.000									-.0280						
172.000							.7820								
180.000	1.2080	.6280	-.1120	-.0780	.1660	.6670			.3220		-1.1840	-.4460	-.0370	.0160	.0220

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1480							-.0770		.0260
40.000	.1250	.0570		-.2010	-.3150	-.2240	-.1250			-.1570
70.000		-.0840	-.1470	-.1920	-.1480	-.1620	-.0240	-.0520		
90.000		-.0420	-.0500	-.1130	-.2240	-.2200	-.0680	-.0500		
105.000				-.0700	-.3100	-.2480	-.0850	-.0830		
110.000									-.2680	
120.000		-.0040	.1170	.0450	-.4820	-.3590	-.0970	-.0910	-.1990	
135.000				.4300	-.0030	-.4640	-.1570	-.1590		
150.000		.0220	.1610	.3200	.0770	-.3090	-.1770	-.2470		
165.000		.0260		.2640	.1940	-.2180	-.1830	-.2970		
180.000		.0240	.1260	.1780						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB02)

MACH (2) = .899 ALPHAT(5) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2140	.7170	.0000	-.9180	-.5610	-.0320			-.0750		-.1820	-.2290	-.0910	.0140	.0920
20.000			-.0370	-.8120	-.6210	-.0400			-.0740		-.2010				
40.000			.0290	-.7120	-.5130	-.0530			-.0970		-.2510	-.3040	-.0790	.0100	.0910
55.000			.0320	-.6990	-.1520	-.0060			-.0700		-.2330				
70.000			-.0060	-.7230	-.1300	.0130			-.0740		-.3060	-.7240	-.1260	.0170	.0290
90.000		.6830	-.0740	-.7090	-.0680	.0280			-.0840		-.3440	-.8290	-.1720	.0210	.0080
120.000			-.1030	-.5020	.0000	.1360			-.0940		-.5210	-.8730	-.0670	.0230	.0190
142.000										-1.1070					
150.000			-.1010	-.3620	.0910	.4310			.1030		-.8540	-.5520	-.1050	.0230	.0170
157.000								.3770							
162.000									-.0370						
165.000											-.8930	-.5650	-.0700	.0430	.0150
169.000									-.0680						
172.000							.7480								
180.000	1.2140	.5940	-.1980	-.1840	.1240	.6510			.2650		-1.2150	-.4740	-.0530	.0170	.0140

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1540							-.0630		.0180
40.000	.1340	.0780		-.1740	-.3020	-.2130	-.1080			-.1530
70.000		-.1350	-.1890	-.2160	-.1550	-.1370	-.0110	-.0170		
90.000		-.0870	-.0830	-.1320	-.2400	-.2300	-.0540	-.0450		
105.000				-.0830	-.3150	-.3170	-.0730	-.0780		
110.000									-.2570	
120.000		-.0360	.0900	.0380	-.4650	-.4530	-.0800	-.0860	-.1890	
135.000				.4030	-.0290	-.4980	-.1370	-.1560		
150.000		-.0020	.1310	.2830	.0340	-.3460	-.1830	-.2500		
165.000		.0030		.2310	.1560	-.2530	-.2010	-.2990		
180.000		-.0010	.0960	.1480						

MACH (2) = .898 ALPHAT(6) = 2.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2160	.7420	.0000	-.9000	-.5450	-.0210			-.0590		-.1520	-.1880	-.0850	.0170	.0950
20.000			-.0070	-.7930	-.6070	-.0260			-.0570		-.1660				
40.000			.0550	-.6930	-.5090	-.0300			-.0720		-.2170	-.2740	-.0860	.0180	.0900
55.000			.0530	-.6790	-.3470	.0110			-.0460		-.2030				
70.000			.0070	-.7070	-.1030	.0270			-.0470		-.2720	-.7140	-.1440	.0030	.0110
90.000		.6830	-.0770	-.7200	-.0440	.0460			-.0520		-.3210	-.8200	-.1980	.0120	-.0097
120.000			-.1410	-.6000	.0050	.1560			-.0550		-.5380	-.9030	-.1310	.0210	.0050

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM802)

MACH (2) = .898 ALPHAT(6) = 2.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-1.0910					
142.000									.0960		-.8620	-.5890	-.1280	.0210	.0080
150.000			-.1520	-.4670	.0770	.4310									
157.000								.3780							
162.000									-.0520						
165.000											-.9070	-.5870	-.0950	.0430	.0080
169.000									-.0970						
172.000							.7360								
180.000	1.2180	.5590	-.2610	-.3210	.1040	.6360			.2560		-1.2370	-.4840	-.0620	.0210	.0040

X/LB	.5873	.6626	.7360	.7889	.8283	.8846	.9262	.9639	1.0015	1.0392
PHI								-.0810		.0110
.000	.1570									-.1530
40.000	.1370	.0960		-.1490	-.2930	-.2030	-.0980			
70.000		-.1950	-.2310	-.2380	-.1620	-.1550	-.0080	-.0080		
90.000		-.1290	-.1150	-.1450	-.2470	-.2640	-.0460	-.0410		
105.000				-.0870	-.3140	-.3270	-.0580	-.0790		
110.000									-.2380	
120.000		-.0680	.0680	.0310	-.4560	-.4790	-.0650	-.0770	-.1870	
135.000				.3680	-.0480	-.5010	-.1260	-.1480		
150.000		-.0330	.1040	.2540	.0050	-.3780	-.1800	-.2480		
165.000		-.0250		.2040	.1290	-.2750	-.2130	-.2950		
180.000		-.0190	.0760	.1200						

MACH (2) = .905 ALPHAT(7) = 4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI									-.0520		-.1380	-.1700	-.0930	.0240	.1080
.000	1.2080	.7710	.0000	-.8850	-.5280	-.0190			-.0510		-.1540				
10.000			.0160	-.7740	-.3920	-.0240			-.0570		-.1940	-.2480	-.1080	.0280	.1040
40.000			.0780	-.6710	-.5010	-.0210			-.0350		-.1800				
59.000			.0720	-.6610	-.4210	.0160			-.0340		-.2500	-.7140	-.1750	-.0050	.0000
70.000			.0160	-.7000	-.1330	.0350			-.0320		-.3050	-.8180	-.2580	.0050	-.0210
90.000		.6790	-.0840	-.7280	-.0090	.0590			-.0220		-.5430	-.9260	-.2150	.0170	-.0050
120.000			-.1740	-.6740	.0240	.1640				-1.0670					
142.000									.0870		-.8840	.6430	-.1550	.0240	-.0020
150.000			-.2040	-.5640	.0660	.4270		.3800							
157.000									-.0680						
162.000											-.9380	-.6160	-.1110	.0460	.0010
165.000									-.1270						
169.000															
172.000							.7230								

AMES 11-707 IA9 OEA + A3 + T9 ORBITER FUSELAGE (R8MB02)

MACH (2) = .905 ALPHAT(7) = 4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2020	.4810	-.3260	-.4410	.0850	.6200			.2260		-.2620	-.5410	-.0740	.0270	.0010

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1690							-.0820		-.0340
40.000	.1540	.1190		-.1280	-.2780	-.2010	-.0940			-.1870
70.000		-.2550	-.2850	-.2580	-.1740	-.1230	.0030	-.0080		
90.000		-.1890	-.1520	-.1520	-.2780	-.2110	-.0390	-.0350		
105.000				-.0980	-.3290	-.3180	-.0580	-.0680		
110.000									-.2480	
120.000		-.1080	.0400	.0590	-.4320	-.4330	-.0590	-.0780	-.1880	
135.000				.3170	-.0740	-.4650	-.1200	-.1530		
150.000		-.0570	.0800	.2240	-.0280	-.3730	-.1820	-.2500		
165.000		-.0510		.1760	.1030	-.2840	-.2150	-.2910		
180.000		-.0490	.0520	.0940						

MACH (2) = .897 ALPHAT(8) = 6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2080	.7880	.0000	-.8750	-.4150	-.0300			-.0550		-.1070	-.1350	-.0670	.0410	.1270
20.000			.0330	-.7620	-.5570	-.0310			-.0510		-.1280				
40.000			.0950	-.6560	-.4460	-.0240			-.0460		-.1680	-.2190	-.0880	.0400	.1210
55.000			.0860	-.6510	-.2430	.0120			-.0260		-.1580				
70.000			.0220	-.7000	-.0300	.0340			-.0260		-.2290	-.7070	-.1800	-.0190	-.0190
90.000		.6730	-.0950	-.7370	.0310	.0630			-.0210		-.2890	-.8270	-.2390	-.0120	-.0360
120.000			-.2130	-.6970	.0530	.1690			.0020		-.5440	-.9380	-.2510	.0040	-.0150
142.000										-1.0320					
150.000			-.2460	-.6000	.0730	.4170			.0680		-.8940	-.6090	-.1520	.0130	-.0085
157.000								.3740							
162.000									-.0920						
165.000											-.8990	-.5880	-.0770	.0455	-.0070
169.000									-.1630						
172.000							.7050								
180.000	1.2060	.4630	-.3790	-.5130	.0770	.6010			.1860		-1.2910	-.4210	-.1530	.0260	-.0010

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							-.0750		-.0180
40.000	.1720	.1400		-.1060	-.2660	-.1870	-.0850			-.1620

MACH [illegible] ALPHAT(8) = 6.03

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.3020	-.3530	-.2750	-.1450	-.0330	-.0040	-.0180		
90.000		-.2350	-.2150	-.1620	-.2700	-.1200	-.0480	-.0410		
105.000				-.1230	-.3280	-.1390	-.0750	-.0710		
110.000									-.2500	
120.000		-.1500	.0140	.0740	-.4320	-.1670	-.0820	-.0660	-.1910	
135.000				.2900	-.0910	-.2110	-.1360	-.1640		
150.000		-.0900	.0460	.2010	-.0560	-.2890	-.1910	-.2570		
155.000		-.0750		.1490	.0840	-.2450	-.2120	-.2930		
180.000		-.0700	.0250	.0660						

MACH [illegible] ALPHAT(9) = 9.000

SECTION (2)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0100	.0188	.0339	.0506	.1255	.1505	.1581	.1732	.1958	.2259	.2711	.3200	.3943	.4512
PHI															
.000	1.1990	.8120	.0000	-.8610	-.0840	-.0300			-.0410		-.0610	-.1030	-.0480	.0320	.1390
80.000			.0540	-.7440	-.0710	-.0350			-.0350		-.1000				
40.000			.1180	-.6340	-.1000	-.0180			-.0250		-.1070	-.1860	-.0860	.0330	.1340
55.000			.1040	-.6340	.0510	.0110			-.0130		-.1330				
70.000			.0500	-.6850	-.0070	.0360			-.0120		-.2010	-.6990	-.1250	-.0341	-.0190
90.000		.6700	-.0980	-.7400	.0500	.0670			-.0020		-.2640	-.9280	-.2440	-.0540	-.0530
120.000			-.2430	-.7370	.0680	.1740			.0340		-.5290	-.9410	-.3040	-.0020	-.0270
142.000										-.9040					
150.000			-.2360	-.3540	.0800	.4120			.0350		-.9120	-.6740	-.1580	.0240	-.0120
157.000								.3690							
162.000									-.1070						
165.000											-.9470	-.5940	-.0830	.0480	-.0050
169.000									-.1880						
172.000							.6820								
180.000	1.1990	.4110	-.4350	-.5830	.0740	.5850			.1580		-1.2950	-.4930	-.0630	.0320	-.0050

X/LB	.5873	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							-.0760		-.0470
40.000	.1810	.1910		-.0880	-.2530	-.1830	-.0940			-.1630
70.000		-.5340	-.4310	-.2370	-.0450	-.1320	-.0550	-.0480		
90.000		-.2670	-.2730	-.1460	-.1290	-.1910	-.0980	-.0640		
105.000				-.1270	-.1580	-.2400	-.1270	-.1000		
110.000									-.2610	
120.000		-.1830	-.0080	.1060	-.3650	-.3130	-.1240	-.1060	-.2060	
135.000				.2910	-.0920	-.3110	-.1580	-.1790		
150.000		-.1140	.0240	.1810	-.0730	-.2930	-.2140	-.2740		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (2) = .900 ALPHAT(9) = 8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0990		+_ 0	.0660	-.2590	-.2250	-.3080		
180.000		-.0890	.003.	90						

MACH (3) = 1.102 ALPHAT(1) = -8.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3120	.7820	.0000	-.5140	-.2330	.1990			.1280		.0110	-.1050	-.1870	-.2810	.0830
20.000			.1610	-.4430	-.1 W0	.1870			.1250		-.0110				
40.000			.2220	-.3720	-.1630	.1450			.0730		-.0860	-.1620	-.2250	-.2930	-.0180
55.000			.2430	-.3490	.1380	.1860			.1050		-.0780				
70.000			.2450	-.3350	.1740	.2120			.1130		-.1440	-.4150	-.3730	-.1020	-.0385
90.000		.8530	.2440	-.2750	.1790	.2040			.0890		-.1620	-.4780	-.4210	-.1100	-.0545
120.000			.3140	.0060	.2640	.3220			.0690		-.2070	-.4990	-.2860	-.1480	-.0600
142.000										-.6290					
150.000			.3870	.2290	.4050	.6530			.4080		-.3970	-.3050	-.1980	-.1490	-.0560
157.000								.6170							
162.000									.3160						
165.000											-.7050	-.2720	-.1600	-.1270	-.0600
169.000									.3390						
172.000							.9660								
180.000	1.3120	.9350	.3480	.3310	.4680	.8800			.6260		-.6370	-.4670	-.1680	-.1260	-.0340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1490							.0060		-.1230
40.000	.1560	.1520		-.3020	-.2890	-.3290	-.3090			-.2440
70.000		.1140	.1550	.1180	.1020	-.0900	-.1610	-.0880		
90.000		.1300	.2170	.1530	.0440	-.1050	-.1530	-.1040		
105.000				.1590	-.0440	-.1060	-.1370	-.1370		
110.000									-.3060	
120.000		.1190	.3490	.2570	-.1790	-.1870	-.1050	-.1250	-.2390	
135.000				.7470	.2810	-.2420	-.0720	-.0870		
150.000		.0730	.3900	.5710	.4060	-.0280	-.0380	-.0730		
165.000		.0550		.5350	.4900	.0660	.0310	-.2960		
180.000		.0230	.3590	.4620						

MACh (3) = 1.102 ALPHAT(3) = -8.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.8020	.0000	-.5050	-.2260	.2080			.1430		[illegible]	-.1395	-.1810	-.3780	-.0780
20.000			.1820	-.4310	-.2750	.2030			1380		.0020				
40.000			.2390	-.3570	-.1790	.1830			.0910		[illegible]	[illegible]	-.0230	-.2560	.0240
55.000			.2550	-.3390	.1220	.2050			.1200		-.0850				
70.000			.2510	-.3390	.1720	.1920			.1230		[illegible]	-.4360	-.3640	-.6420	-.0430
90.000		.8540	.2340	-.2940	.1780	.1450			.0980		-.1550	[illegible]	[illegible]	-.1980	-.0870
120.000			.0740	-.0720	.2410	.2980			.0780		-.2420	[illegible]	[illegible]	-.1880	-.0610
142.000										-.6380					
150.000			.3250	.1450	.3620	.6340			.3910		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
157.000								.6000							
162.000									.2830						
169.000											[illegible]	[illegible]	[illegible]	.4830	[illegible]
181.000									.3070						
192.000							.9470								
180.000	[illegible]	[illegible]	[illegible]	.2890	.8460	[illegible]	[illegible]		.5970		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
X/LB	.6870	.6930	.7360	.7640	.8080	.8840	.9262	.9630	1.0015	1.0192					
PHI															
.000	.2000							.0030		-.0940					
40.000	.1730	.1690		-.2780	-.2440	-.3350	-.2770			-.2545					
70.000		.1730	.1220	.0950	.0260	-.1140	-.1860	-.1220							
90.000		.0430	.1080	.1340	.0220	-.1230	-.1640	-.1450							
105.000				.1410	-.0400	-.1400	-.1620	-.1650							
110.000									-.3150						
120.000		.0930	.3160	.2690	-.1650	-.2090	-.1250	-.1410	-.2470						
135.000				.2150	.2700	-.2440	-.1340	-.0940							
150.000		.0740	.3570	.5390	.3700	-.0570	-.0700	-.0960							
165.000		.0600		.5080	.4340	.0410	-.0050	-.3120							
180.000		.0420	.3330	.4350											

MACh (3) = 1.102 ALPHAT(3) = -4.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
000	1.3040	.8130	.0000	-.5060	-.2220	.0310			.1610		.0340	-.0850	-.[illegible]	-.285	[illegible]
20.000			.1890	-.4300	-.2720	.1120			.1540		.0310				
40.000			.2480	-.3550	-.1630	.1320			.1000		-.0540	-.0480	-.[illegible]	.084	.0290
55.000			.2620	-.3360	-.0740	-.0860			.0370		.0480				
70.000			.2500	-.3370	.1370	.0250			.1760		[illegible]	-.[illegible]	[illegible]	-.[illegible]	-.[illegible]
90.000		.8480	.2210	-.3130	.1840	.0980			.1460		.1860	[illegible]	[illegible]	[illegible]	[illegible]
120.000			.2330	-.1600	.2180	.2830			.0820		[illegible]	[illegible]	[illegible]	[illegible]	

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (3) = 1.102 ALPHAT(3) = -4.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5530					
150.000			.2670	.0390	.3170	.6130			.3680		.4900	-.4590	- 2870	-.1810	-.0640
157.000								.5860							
162.000									.2620						
165.000											-.7760	-.3700	-.2450	-.1690	-.0740
169.000									.2660						
172.000							.9290								
180.000	1.3040	.8370	.1910	.1590	.3550	.8320			.5580		-.7150	-.5730	-.2240	-.1720	-.0730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2080							-.0060		-.0840
40.000	.1840	.1820		-.2490	-.2140	-.4560	-.2590			-.2050
70.000		.0260	.0560	.0580	.0750	-.1270	-.2080	-.1580		
90.000		.0320	.1270	.1090	.0120	-.1310	-.2060	-.1700		
105.000				.1180	-.0430	-.1310	-.1940	-.1890		
110.000									-.3240	
120.000		.0640	.2940	.2700	-.1580	-.2210	-.1530	-.1540	-.2540	
135.000				.6880	.2550	-.2610	-.1160	-.1050		
150.000		.0580	.3400	.4830	.3510	-.0850	-.0950	-.1230		
165.000		.0480		.4750	.4190	.0130	-.0320	-.3270		
180.000		.0380	.3090	.4050						

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3070	.8190	.0000	-.5520	-.2380	-.0820			.1650		.0480	-.0840	-.1370	-.2360	-.0730
20.000			.1640	-.4680	-.3090	-.0990			.1620		.0250				
40.000			.2420	-.3760	-.2210	-.1050			.1230		-.0390	-.1220	-.1900	-.2590	-.0270
55.000			.2640	-.3460	-.1590	-.0930			.1540		-.0260				
70.000			.2500	-.3470	-.1370	.0150			.1390		-.1000	-.4340	-.3860	-.2060	-.0820
90.000		.8450	.2090	-.3300	.1960	.0930			.0820		-.1610	-.4930	-.4500	-.1815	-.0820
120.000			.1980	-.2550	.1920	.2790			.0580		-.2930	-.5530	-.3740	-.1620	-.0610
142.000										-.6650					
150.000			.2110	-.1030	.2720	.5980			.3490		-.5290	-.4450	-.3230	-.1840	-.0810
157.000								.5720							
162.000									.2360						
165.000											-.7990	-.4220	-.2900	-.1810	-.0[illegible]
169.000									.2320						
172.000							.9120								

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
180.000	1.3070	.7910	.1280	.0120	.3040	.8100			.5230		-.7440	-.6160	-.2460	-.1850	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2100							-.0090		-.0600
40.000	.1910	.1890		-.1930	-.1760	-.4150	-.2260			-.1890
70.000		-.0040	-.0270	.0230	.0520	-.1430	-.2370	-.1940		
90.000		.0290	.0730	.0790	-.0160	-.1450	-.2330	-.1890		
105.000				.0890	-.0570	-.1650	-.2350	-.2070		
110.000									-.3340	
120.000		.0330	.2520	.2660	-.1550	-.2510	-.1810	-.1720	-.2660	
135.000				.6450	.2380	-.2770	-.1390	-.1360		
150.000		.0580	.3000	.4230	.3170	-.1140	-.1210	-.1500		
165.000		.0560		.4340	.3600	-.0150	-.0720	-.3390		
180.000		.0550	.2630	.3670						

MACH (3) = 1.102 ALPHAT(5) = -.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
.000	1.3300	.8130	.0000	-.6050	-.2540	-.1570			.1770		.0680	-.0360	-.0980	-.2070	.0820
20.000			.1180	-.5250	-.3440	-.1660			.1750		.0450				
40.000			.2270	-.4090	-.2520	-.1770			.1580		-.0140	-.0910	-.1520	-.2280	.0310
55.000			.2650	-.3550	-.1930	-.0540			.1910		.0020				
70.000			.2560	-.3560	-.2060	.0360			.1460		-.0770	-.4220	-.3690	-.2300	-.0940
90.000		.8560	.2070	-.3430	-.2020	.1070			.0230		-.1450	-.4840	-.4370	-.2020	-.0940
120.000			.1680	-.2910	.1730	.2810			.0810		-.2880	-.5550	-.4050	-.1660	-.0680
142.000										-.6730					
150.000			.1640	-.2350	.2440	.5890			.3330		-.5510	-.4670	-.3440	-.1620	-.0630
157.000								.5650							
162.000									.2160						
165.000											-.8160	-.4370	-.3100	-.1860	-.0700
169.000									.1970						
172.000							.6970								
180.000	1.3300	.7930	.0740	-.1240	.2720	.7940			.4880		-.7650	-.6430	-.2590	-.1950	-.0700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							-.0100		-.0640
40.000	.1860	.1900		-.1190	-.1340	-.3190	-.2210			-.1720

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (3) = 1.102 ALPHAT(5) = -.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0240	-.1140	-.0250	.0330	-.1540	-.2470	-.2110		
90.000		.0160	.0090	.0400	-.0510	-.1620	-.2600	-.2130		
105.000				.0730	-.0740	-.1650	-.2600	-.2390		
110.000									-.3390	
120.000		.0420	.1880	.2360	-.1560	-.2640	-.2050	-.1910	-.2830	
135.000				.6040	.2100	-.2900	-.1670	-.1500		
150.000		.0580	.2540	.3700	.2780	-.1340	-.1480	-.1810		
165.000		.0560		.3890	.3530	-.0330	-.0970	-.3530		
180.000		.0600	.2200	.3300						

MACH (3) = 1.102 ALPHAT(6) = 1.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3290	.8060	.0000	-.6230	-.2000	-.1930			.1790		.0750	-.0240	-.0880	-.1670	.0580
20.000			.0900	-.5560	-.3410	-.2120			.1750		.0560				
40.000			.2220	-.4240	-.2610	-.2160			.1700		.0050	-.0750	-.1340	-.1870	.0500
55.000			.2700	-.3550	-.2050	-.0800			.2100		.0250				
70.000			.2610	-.3540	-.2290	.0160			.1880		-.0510	-.4150	-.3670	-.2580	-.0880
90.000		.8580	.2050	-.3450	-.2060	.1020			.1460		-.1280	-.4830	-.4320	-.2280	-.0970
120.000			.1510	-.3100	-.0500	.2830			.1150		-.2930	-.5610	-.4400	-.1750	-.0710
142.000										-.6780					
150.000			.1300	-.2850	.1410	.5840			.3200		-.5590	-.4900	-.3650	-.1770	-.0600
157.000								.5590							
162.000									.2010						
165.000											-.6340	-.4550	-.3190	-.1390	-.0670
169.000									.1660						
172.000							.8920								
180.000	1.3290	.7250	.0290	-.1830	.2180	.7840			.4610		-.7900	-.6670	-.2670	-.2000	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1680							-.0140		-.0660
40.000	.1660	.1790		-.0250	-.1020	-.2980	-.2060			-.1450
70.000		-.0390	-.2060	-.0890	.0040	-.1670	-.2370	-.2310		
90.000		.0070	-.0860	-.0060	-.0940	-.1610	-.2740	-.2310		
105.000				.0280	-.0960	-.1790	-.2810	-.2480		
110.000									-.3560	
120.000		.0250	.1470	.2270	-.1560	-.2970	-.2150	-.2160	-.2880	
135.000				.5450	.1970	-.3050	-.1930	-.1690		
150.000		.0360	.2010	.3520	.2420	-.1580	-.1710	-.1980		

AMES 11-70? DAD 02A + 53 + 79 ORBITER FUSELAGE (RBMB02)

MACH (3) = 1.102 ALPHAT(6) = 1.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0400		.3560	.3150	-.0610	-.1240	-.3560		
180.000		.0410	.1720	.2970						

MACH (3) = 1.102 ALPHAT(7) = 3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3260	.7950	.0000	-.5810	-.1550	-.1860			.1450		.0650	-.0120	-.0750	-.1310	.0550
20.000			.0610	-.5620	-.2210	-.1550			.1430		.0490				
40.000			.2140	-.4390	-.2550	-.2210			.1460		.0120	-.0580	-.1120	-.1570	.0580
55.000			.2730	-.3530	-.2050	-.1140			.2040		.0350				
70.000			.2680	-.3540	-.2400	-.0100			.2040		-.0360	-.4090	-.3630	-.2790	-.0850
90.000		.6580	.2040	-.3510	-.2180	.0900			.1870		-.1080	-.4840	-.4220	-.2630	-.0970
120.000			.1280	-.3260	-.1190	.2850			.1660		-.2860	-.5590	-.4770	-.1980	-.0750
142.000										-.6810					
150.000			.0950	-.3250	-.0160	.5800			.3170		-.5600	-.5090	-.3890	-.1840	-.0610
157.000								.5600							
162.000									.1900						
165.000											-.8420	-.4560	-.3310	-.1890	-.0640
169.000									.1430						
172.000							.8850								
180.000	1.3280	.6930	-.0130	-.2270	.0090	.7700			.4360		-.8060	-.6610	-.2810	-.2100	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1830							-.0160		-.0510
40.000	.1800	.1820		.0010	-.0990	-.1880	-.2030			-.1380
70.000		-.0300	-.2570	-.1980	-.0310	-.1840	-.2770	-.2540		
90.000		.0110	-.1600	-.0510	-.1420	-.1780	-.2960	-.2690		
105.000				.0040	-.1390	-.1920	-.3020	-.2670		
110.000									-.3720	
120.000		.0120	.1110	.2300	-.1570	-.3350	-.2350	-.2430	-.3050	
135.000				.4570	.1670	-.3260	-.2160	-.1920		
150.000		.0250	.1640	.3140	.2030	-.1800	-.2020	-.2260		
165.000		.0310		.3120	.2600	-.0820	-.1530	-.3630		
180.000		.0370	.1300	.2490						

DATE 13 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + O3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (3) = 1.102 ALPHAT(8) = 5.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3250	.7810	.0000	-.4690	-.1660	-.0970			.1080		.0580	.0020	-.0530	-.0850	.0580
20.000			.0200	-.4970	-.1160	-.1380			.1070		.0430				
40.000			.2060	-.4430	-.1780	-.1470			.1300		.0100	-.0420	-.0870	-.1170	.0540
55.000			.2810	-.3400	-.1940	-.0900			.1970		.0400				
70.000			.2770	-.3420	-.2350	.0070			.2020		-.0220	-.4050	-.3710	-.2760	-.0750
90.000		.8580	.2080	-.3510	-.2290	.1020			.2040		-.0980	-.4920	-.4170	-.2910	-.0960
120.000			.1040	-.3450	-.1750	.2990			.1980		-.2870	-.5670	-.4950	-.2140	-.0690
142.000										-.6740					
150.000			.0620	-.3600	-.0670	.5770			.3110		-.5590	-.5390	-.4110	-.1850	-.0530
157.000								.5660							
162.000									.1800						
165.000											-.8560	-.4690	-.3360	-.1840	-.0540
169.000									.1240						
172.000							.8780								
180.000	1.3250	.6580	-.0320	-.2680	-.0630	.7570			.4120		-.8270	-.6540	-.2930	-.2090	-.0520

X/LB	.5875	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1660							-.0180		-.0440
40.000	.1660	.1960		.0260	-.0870	-.1570	-.1850			-.1320
70.000		-.0810	-.2910	-.2580	-.0920	-.1960	-.2890	-.2550		
90.000		-.0340	-.2160	-.0730	-.1960	-.2010	-.3140	-.3040		
105.000				-.0010	-.1670	-.2370	-.3290	-.3150		
110.000									-.3760	
120.000		-.0090	.0750	.2450	-.1610	-.3830	-.2540	-.2630	-.3200	
135.000				.4010	.1460	-.3470	-.2540	-.2110		
150.000		.0200	.1420	.2610	.1730	-.2080	-.2200	-.2600		
165.000		.0300		.2740	.2310	-.1110	-.1670	-.3700		
180.000		.0420	.0930	.2130						

MACH (3) = 1.101 ALPHAT(9) = 7.940

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3260	.7390	.0000	-.4210	-.1540	-.0470			.0900		.0600	.0170	-.0230	-.0530	.0680
20.000			-.0180	-.4650	-.0900	-.0620			.0960		.0460				
40.000			.1970	-.4440	-.1010	-.1120			.1390		.0220	-.0200	-.0620	-.0840	.0620
55.000			.2930	-.3330	-.1740	-.0790			.2070		.0560				
70.000			.2660	-.3290	-.2330	.0270			.2100		-.0040	-.3960	-.3680	-.2780	-.0881
90.000		.8590	.2070	-.3510	-.2390	.1400			.2140		-.0780	-.4930	-.4080	-.3170	-.1150
120.000			.0900	-.3510	-.2030	.3070			.2160		-.2870	-.5690	-.5100	-.2390	-.0770

DATE 17 SEP 79 ISOLATED PRESSURE DATA

AMES 11-707 IA3 O2A + ST + TD ORBITER FUSELAGE (RBM003)

MACH (3) = 1.101 ALPHAT(9) = 7.940

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6630					
150.000			.0260	-.3910	-.1110	.5720			.3020		-.5800	-.5670	-.4320	-.1850	-.0490
157.000								.5690							
162.000									.1680						
165.000											-.8640	-.4820	-.3490	-.1780	-.0460
169.000									.1020						
172.000							.8680								
180.000	1.3260	.6280	-.0930	-.3090	-.1100	.7400			.3980		-.8450	-.6200	-.3120	-.1960	-.0410

X/LB	[illegible]73	.5626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1927							-.0120		-.0320
40.000	.1720	.2090		.0480	-.0780	-.1310	-.1550			-.1280
70.000		-.1011	-.3250	-.3000	-.1380	-.2210	-.2600	-.0090		
90.000		-.3670	-.2510	-.0960	-.2200	-.2130	-.3290	-.0170		
105.000				-.0110	-.1800	-.2800	-.3480	-.1760		
110.000									-.1850	
120.000		-.0280	.0490	.2530	-.1640	-.4020	-.2760	-.2900	-.0770	
135.000				.3610	.1170	-.3560	-.2730	-.2340		
150.000		.0110	.1070	.2490	.1510	-.2170	-.2390	-.2730		
165.000		.0220		.2390	.2390	-.1230	-.1720	-.3930		
180.000		.0290	.0660	.1890						

MACH (4) = 1.249 ALPHAT(1) = -0.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3610	.8880	.0000	-.3320	-.0960	.1120			.2360		.1400	.0200	-.0790	-.1880	-.2720
20.000			.2830	-.2700	-.1240	.1080			.1670		.1160				
40.000			.3430	-.2080	-.0520	-.1540			.0880		.0250	-.0490	-.1180	-.2000	-.2050
55.000			.3580	-.1870	.0110	.0460			.1680		.0290				
70.000			.3670	-.1870	.1300	.1630			.0740		-.0560	-.3050	-.2680	-.0960	-.0280
90.000		.9340	.3530	-.1510	.2460	.2250			.1140		-.1110	-.3440	-.3300	-.0980	-.0370
120.000			.3900	-.0230	.2900	.3990			.1730		-.1970	-.4180	-.2270	-.1270	-.0470
142.000										-.4480					
150.000			.4340	.1820	.4210	.7260			.5110		-.3090	-.2840	-.1990	-.1210	-.0400
157.000								.7070							
162.000									.4150						
165.000											-.5570	-.2400	-.1770	-.1020	-.0450
169.000									.4370						
172.000							1.0370								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM802)

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE

MACH (4) = 1.249 ALPHAT(1) = -8.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
180.000	1.3610	.9630	.3760	.2880	.4740	.9410			.6970		-.4840	-.3760	-.1550	-.0980	-.0400
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.1280								.0130		-.1490				
40.000	-.1610	.1120		-.1750	-.2340	-.3710	-.2960				-.1620				
70.000		-.1130	.0240	.0970	.1140	-.0200	-.0810	-.0340							
90.000		-.0860	.0760	.1260	.0670	-.0190	-.0810	-.0470							
105.000				.1260	.0030	-.0320	-.0870	-.0630							
110.000									-.1840						
120.000		-.0610	.1600	.2980	-.0780	-.1800	-.0450	-.0530	-.1330						
135.000				.7870	.3410	-.1430	-.0850	-.0340							
150.000		-.0330	.0810	.4150	.4530	.0680	.0250	-.0280							
165.000		-.0310		.4800	.5840	.1680	.1100	-.2120							
180.000		-.0280	-.0070	.4240											

MACH (4) = 1.248 ALPHAT(2) = -6.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3620	.9320	.0000	-.3160	-.0730	.0710			-.0290		.1780	.0370	-.0630	-.1600	-.2890
20.000			.3040	-.2540	-.1060	.0590			.0000		.1530				
40.000			.3680	-.1840	-.0360	-.1470			.0180		.0580	-.0300	-.0980	-.1810	-.1980
55.000			.3800	-.1660	-.0020	.0500			-.0080		.0250				
70.000			.3800	-.1660	-.0030	.1570			.0770		-.0640	-.3100	-.2730	-.1070	-.0430
90.000		.9320	.3550	-.1430	.0560	.2270			.1270		-.1590	-.3910	-.3350	-.1000	-.0510
120.000			.3630	-.0570	.2650	.4030			.1900		-.2060	-.4460	-.2520	-.1350	-.0480
142.000										-.4410					
150.000			.3930	.0830	.3730	.7150			.4970		-.3220	-.3060	-.2330	-.1370	-.0450
157.000								.7040							
162.000									.4000						
165.000											-.3640	-.2640	-.2020	-.1270	-.0500
169.000									.4080						
172.000							1.0200								
180.000	1.3620	.9270	.3290	.1650	.4170	.9210			.6680		-.4970	-.3960	-.1710	-.1350	-.0430
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.1060							.0260		-.1150					
40.000	-.1490	.1790		-.1520	-.1960	-.3500	-.2760			-.1540					

TABULATED PRESSURE DATA - TAP

AMES 11-70/ TAP CRA + SC + T9 ORBITER FUSELAGE (RBW002)

MACH (4) = 1.248 ALPHAT(2) = -6.020

SECTION 1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1180	.0200	.0630	.0990	-.0960	-.0990	-.0650		
90.000		-.0900	.0720	.1070	.0480	-.0310	-.1050	-.0750		
105.000				.1140	.0150	-.0400	-.1120	-.0870		
110.000									-.1900	
120.000		-.0580	.1740	.3020	-.0520	-.1840	-.0610	-.0690	-.1030	
135.000				7470	.3380	-.1460	-.0840	-.0390		
150.000		-.0330	.1150	.4105	.4370	.0460	.0080	-.0390		
165.000		-.0330		.4560	.5360	.1520	.0870	-.2240		
180.000		-.0280	-.0130	.4050						

MACH (4) = .1249 ALPHAT(3) = -3.580

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3620	.9500	.0000	-.3710	-.1460	.0490			-.0770		.1420	.0660	-.0370	-.1410	-.2580
20.000			.2940	-.3040	-.1740	.0400			-.0670		.0690				
40.000			.3710	-.2070	-.0930	-.1270			-.0400		-.0380	-.0280	-.0690	-.1660	-.2010
55.000			.3860	-.1760	-.0450	.0470			.0250		-.0010				
70.000			.3740	-.1770	-.0590	.1480			.0760		-.1120	-.3130	-.2950	-.1250	-.0640
90.000		.9260	.3390	-.1570	-.0290	.2220			.1290		-.1740	-.3910	-.3470	-.1140	-.0650
120.000			.3300	-.0930	.2180	.3980			.1950		-.2170	-.4360	-.3130	-.1610	-.0820
142.000										-.4540					
150.000			.3450	-.0050	.2960	.6990			.4760		-.3360	-.3320	-.2690	-.1690	-.0800
157.000								.6890							
162.000									.3720						
165.000											-.5760	-.2900	-.2390	-.1670	-.0840
169.000									.3700						
172.000							1.0020								
180.000	1.3620	.8780	.2730	.0940	.3260	.8970			.6300		-.5160	-.4160	-.2000	-.1770	-.0600

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0060							.0280		-.0980
40.000	-.0780	.2030		-.1340	-.1650	-.3470	-.2630			-.1560
70.000		-.1130	-.0260	.0170	.0770	-.0560	-.1220	-.1060		
90.000		-.0690	.0320	.0820	.0240	-.0470	-.1330	-.1100		
105.000				.1000	.0030	-.0640	-.1430	-.1190		
110.000									-.2060	
120.000		-.0610	.1630	.2940	-.0440	-.1990	-.0830	-.0960	-.1470	
135.000				.6930	.5230	-.1580	.0940	-.0540		
150.000		-.0470	.1540	.3870	.4060	.0230	-.0150	-.0620		

DATE 13 SEP 78 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (4) = 1.249 ALPHAT(3) = -3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0430		.4280	.4700	.1300	.0590	-.2380		
180.000		-.0400	.0000	.3830						

MACH (4) = 1.245 ALPHAT(4) = -1.950

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3800	.9660	.0000	-.4000	-.1710	.0120			-.1230		-.1160	.1160	.0050	-.1130	-.2400
20.000			.2740	-.3330	-.2070	-.0150			-.1170		-.0960				
40.000			.3740	-.2270	-.1260	-.0230			-.1160		-.0670	-.0620	-.0300	-.1490	-.1870
55.000			.4010	-.1770	-.0790	.0390			.0140		-.0920				
70.000			.3950	-.1770	-.0920	.1330			.0930		-.1150	-.3500	-.3140	-.1440	-.0780
90.000		.9330	.3380	-.1670	-.0560	.2120			.1400		-.1760	-.4110	-.3500	-.1340	-.0850
120.000			.3000	-.1110	.1170	.3860			.2090		-.2250	-.4640	-.3580	-.1770	-.0800
142.000										-.4600					
150.000			.3000	-.0610	.2190	.6790			.4570		-.3580	-.3610	-.3000	-.2050	-.0710
157.000								.6710							
162.000									.3520						
165.000											-.5930	-.3190	-.2740	-.2100	-.0710
169.000									.3400						
172.000							.9790								
180.000	1.3800	.6270	.2260	.0400	.2430	.8680			.5960		-.5360	-.4430	-.2290	-.2140	-.0650

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1130							.0200		-.0750
40.000	-.0010	.2290		-.1190	-.1280	-.3520	-.2580			-.1210
70.000		-.1230	-.0660	-.0200	.0480	-.0730	-.1500	-.1400		
90.000		-.0940	.0040	.0620	-.0110	-.0700	-.1670	-.1410		
105.000				.0850	-.0100	-.0700	-.1730	-.1490		
110.000									-.2290	
120.000		-.0650	.1470	.2850	-.0400	-.2160	-.1110	-.1190	-.1690	
135.000				.6220	.3020	-.1780	-.1100	-.0730		
150.000		-.0490	.1690	.3580	.3650	-.0090	-.0420	-.0850		
165.000		-.0480		.3910	.4170	.1010	.0230	-.2530		
180.000		-.0480	.0400	.3530						

MACH (4) = 1.246 ALPHAT(5) = .040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4090	.9640	.0000	-.4340	-.2470	-.0290			-.1450		-.1970	.1610	.0570	-.0930	-.1910
20.000			.2610	-.3720	-.2650	-.0450			-.1420		-.1710				
40.000			.3690	-.2510	-.1780	-.0570			-.1340		-.1350	-.0380	-.0030	-.1320	-.1570
55.000			.3990	-.1910	-.1140	.0450			.0070		-.0990				
70.000			.3910	-.1920	-.1230	.1270			.0910		-.1180	-.3840	-.3070	-.1570	-.0800
90.000		.9550	.3310	-.1910	-.0880	.2100			.1620		-.1630	-.4240	-.3330	-.1440	-.0580
120.000			.2620	-.1460	.0200	.3780			.2370		-.2320	-.4700	-.3860	-.1670	-.0840
142.000										-.4590					
150.000			.2460	-.1260	.1500	.6640			.4420		-.3740	-.3870	- 3250	-.2220	-.0720
157.000								.6500							
162.000									.3290						
165.000											-.6060	-.3420	-.3020	-.2320	-.0730
169.000									.3100						
172.000							.9570								
180.000	1.4090	.9570	.1580	-.0260	.1710	.8510			.5640		-.5550	-.4630	-.2500	- 2410	-.0680

X/LB	.5975	.7380	.7669	.8283	.8848	.9262	.9639	1.0015	1.0382
PHI									
.000	.0990						.0170	-.0750	
40.000	.0070	.2130	-.0980	-.0760	-.3510	-.2410		-.0930	
70.000	-.1270	-.1080	-.0750	.0250	-.0860	-.1610	-.1730		
90.000	-.1610	-.0360	.0410	-.0390	-.0920	-.1880	-.1760		
105.000			.0980	-.0370	-.0990	-.1930	-.1800		
110.000							-.2420		
120.000	-.0670	.1260	.2600	-.0370	-.2370	-.1380	-.1380	-.1850	
135.000			.5530	.2780	-.1950	-.1190	-.0920		
150.000	-.0450	.1740	.3060	.3160	-.0340	-.0610	-.1090		
165.000	-.0470		.3310	.3700	.0760	-.0020	-.2650		
180.000	-.0460	.0830	.3090						

MACH (4) = 1.244 ALPHAT(6) = 2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/Lb	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	1.3910	.9810	.0000	-.4380	-.2450	-.0310			-.1850		-.2670	.2010	.0790	-.0790	-.1900
20.000			.2590	-.3780	-.2620	-.0580			-.1860		-.1890				
40.000			.3810	-.2540	-.2020	-.0680			-.1750		-.0230	.0590	-.0030	-.1100	-.1140
55.000			.4160	-.1830	-.1240	.0090			-.0210		-.1100				
70.000			.4020	-.1830	-.1290	.0740			.0780		-.1390	-.2980	-.2770	-.1720	-.0970
90.000		.9570	.3370	-.1830	-.1020	.1900			.1530		-.1860	-.4380	-.3380	-.1670	-.1010
120.000			.2510	-.1640	-.0330	.3700			.2410		-.2490	-.4610	-.4150	-.1720	-.0870

AMES 11-707 IA9 O2A + 33 + T9 ORBITER FUSELAGE (RBME02)

MACH (4) = 1.244 ALPHAT(6) = 2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4850					
150.000			.2150	-.1680	.0900	.6520			.4180		-.3970	-.4200	-.3530	-.2110	-.0870
157.000								.6480							
162.000									.3010						
165.000											-.6250	-.3660	-.3300	-.2300	-.0860
169.000									.2640						
172.000							.9520								
180.000	1.3910	.7680	.1070	-.0790	.1120	.8300			.5210		-.5790	-.4890	-.2750	-.2610	-.0570

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1360							.0160		-.0360
40.000	.0650	.2410		-.0770	-.0390	-.3540	-.2100			-.1050
70.000		-.1190	-.1410	-.1250	-.0150	-.1080	-.1840	-.2060		
90.000		-.0950	-.0810	.0240	-.0890	-.1020	-.2070	-.2050		
105.000				.0640	-.0470	-.1390	-.2150	-.2110		
110.000									-.2640	
120.000		-.0670	.1010	.2840	-.0450	-.2630	-.1740	-.1590	-.1990	
135.000				.5040	.2510	-.2120	-.1400	-.1170		
150.000		-.0460	.1550	.2970	.2660	-.0640	-.0830	-.1290		
165.000		-.0460		.3010	.3470	.0450	-.0270	-.2770		
180.000		-.0400	.0970	.2800						

MACH (4) = 1.245 ALPHAT(7) = 3.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3980	.9630	.0000	-.4460	-.2410	-.0570			-.1930		-.2570	.2040	.0820	-.0600	-.1140
20.000			.2390	-.4110	-.3040	-.0830			-.1940		-.1640				
40.000			.3740	-.2700	-.2190	-.1040			-.1920		-.0570	.0630	.0040	-.0850	-.0980
55.000			.4220	-.1890	-.1330	-.0240			-.0390		-.0220				
70.000			.4070	-.1890	-.1360	.0330			.0670		-.1050	-.2990	-.2670	-.1870	-.1230
90.000		.9590	.3320	-.1890	-.1110	.1480			.1570		-.1840	-.4110	-.3370	-.1960	-.1240
120.000			.2360	-.1820	-.0540	.3630			.2540		-.2690	-.4910	-.3780	-.1980	-.1000
142.000										-.4840					
150.000			.1900	-.1990	.0310	.6460			.4150		-.4210	-.4580	-.3780	-.2110	-.0810
157.000								.6630							
162.000									.2990						
165.000											-.6400	-.3890	-.3390	-.2200	-.0870
169.000									.2480						
172.000							.9600								

AMES 11-FT IA9 J24 + 33 + T9 ORBITER FUSELAGE (RBMB02)

MACH (4) = 1.245 ALPHAT(7) = 3.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3960	.7470	.0790	-.1230	.0510	.8120			.5000		-.5980	-.5150	-.2980	-.2580	-.0520
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1760							.0140		-.0520					
40.000	.1410	.2250		-.0300	-.0030	-.3320	-.1970			-.1210					
70.000		-.1090	-.1770	-.1770	-.0760	-.1230	-.2030	-.2370							
90.000		-.0760	-.1190	-.0030	-.1200	-.1360	-.2260	-.2310							
105.000				.0510	-.0530	-.1730	-.2350	-.2430							
110.000									-.2710						
125.000		-.0690	.0780	.2570	-.0310	-.2830	-.2210	-.1740	-.2150						
135.000				.4450	.2320	-.2330	-.1580	-.1410							
150.000		-.0510	.1460	.2730	.3320	-.0900	-.1090	-.1530							
165.000		-.0470		.2780	.3050	.0200	-.0590	-.2080							
180.000		-.0420	.0950	.2550											

MACH (4) = 1.245 ALPHAT(8) = 5.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3720	.9700	.0000	-.2980	-.2250	-.0470			-.1780		-.2260	.2000	.0980	-.0270	-.0750
20.000			.2170	-.3000	-.2180	-.0770			-.1730		-.2070				
40.000			.3700	-.2780	-.1750	-.0940			-.1510		-.1510	.0735	.0260	-.0480	-.0850
55.000			.4220	-.1760	-.1320	-.0550			-.0420		-.0550				
70.000			.4150	-.1770	-.1430	-.0190			.0550		-.0650	-.3310	-.2470	-.1870	-.1450
90.000		.9510	.3390	-.1790	-.1210	.0390			.1490		-.1190	-.4250	-.3010	-.2090	-.1460
120.000			.2190	-.1820	-.0750	.3440			.2340		-.2730	-.4650	-.4220	-.2120	-.1310
142.000										-.4850					
150.000			.1680	-.2170	-.0200	.6320			.4130		-.4410	-.4890	-.3760	-.2020	-.0580
157.000								.6740							
162.000									.2920						
165.000											-.6550	-.4130	-.3720	-.2190	-.0800
169.000									.2350						
172.000							.9620								
180.000	1.3720	.7150	.0570	-.1460	-.0010	.7820			.4830		-.6130	-.5350	-.3150	-.2510	-.0480
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1770							.0130		-.0380					
40.000	.1340	.2260		.0730	.0180	-.3230	-.1710			-.1220					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-foot IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (4) = 1.245 ALPHAT(8) = 5.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.9873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1140	-.2060	-.2290	-.1210	-.1360	-.2120	-.2610		
90.000		-.0710	-.1460	-.0290	-.1380	-.1720	-.2400	-.2530		
105.000				.0370	-.0640	-.1930	-.2500	-.2610		
110.000									-.2790	
120.000		-.0550	.0750	.2690	-.0230	-.2920	-.2480	-.1940	-.2420	
135.000				.3840	.2140	-.2470	-.1710	-.1600		
150.000		-.0430	.1340	.2600	.2120	-.1050	-.1230	-.1760		
165.000		-.0370		.2670	.2580	.0020	-.0810	-.2970		
180.000		-.0380	.0940	.2290						

MACH (4) = 1.247 ALPHAT(9) = 7.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3943	.5120
PHI															
.000	1.3840	.9600	.0000	-.2490	-.2420	-.0330			-.1590		-.2370	.2020	.0990	.0070	-.0310
20.000			.1680	-.2800	-.2170	-.0650			-.1590		-.1960				
40.000			.3500	-.2940	-.1460	-.0940			-.1500		-.1450	.0990	.0420	-.1190	-.2180
55.000			.4210	-.1800	-.1080	-.0650			-.0770		-.0720				
70.000			.4180	-.1700	-.1400	-.0410			.0610		-.0650	-.2580	-.2280	-.1880	-.2730
90.000		.9400	.3300	-.1960	-.1220	-.0060			.1580		-.1150	-.4280	-.2740	-.2280	-.2770
120.000			.1980	-.2100	-.0960	.3060			.2110		-.2600	-.4700	-.4250	-.2370	-.1310
142.000										-.4830					
150.000			.1330	-.2470	-.0600	.6050			.4070		-.4480	-.5070	-.3970	-.1920	-.2870
157.000								.6880							
162.000									.2850						
165.000											-.6620	-.4290	-.3810	-.1980	-.2480
169.000									.2220						
172.000							.9590								
180.000	1.3840	.7100	.0180	-.1810	-.0390	.7290			.4660		-.6240	-.5510	-.3770	-.2450	-.2470

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							.0180		-.0400
40.000	.1510	.2330		.1030	.0200	-.3310	-.1450			-.1020
70.000		-.1210	-.2240	-.2660	-.1610	-.1450	-.2160	-.2740		
90.000		-.0730	-.1670	-.0480	-.1580	-.2150	-.2570	-.2710		
105.000				.0280	-.0760	-.2160	-.2850	-.2800		
110.000									-.3020	
120.000		-.0310	.0790	.2730	-.0260	-.2[illegible]	-.2690	-.2310	-.2[illegible]	
135.000				.3305	.1840	-.2[illegible]	-.1830	-.1720		
150.000		-.0330	.1240	.2720	.1830	-.1[illegible]	-.1230	-.1820		

ALPHAT 9 =

SECTION AIRFOIL USED DEPENDENT VARIABLE IS

X/LE .5873 .6626 .7390 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
.000 -.0250 .2360 .2320 -.0080 -.0410 .3010
180.000 -.0210 .0350 .1990

ALPHAT 1 = -8.050

SECTION AIRFOIL USED DEPENDENT VARIABLE IS

X/LE .0873 .0626 .1390 .1869 .2283 .2848 .3262 .3639 .4015 .4392 .4769 .5146 .5523 .5900 .6276 .6653 .7030 .7407 .7784 .8161 .8538 .8914 .9291 .9668 1.0045 1.0422

PHI
.000 1.4150 .4640 .2780 .4240 1.3190 .7920 .0980 .1030 .0930 .1140 .2160 .2610 .3130 .6260 .5330 .5460 .3920
15.000 -.0160 -.1350 -.1510
30.000 -.0390 -.2440 -.2700 -.1930 -.0840 -.0310
45.000 .0470 -.2770 -.1920 -.0840 -.0310
60.000 -.3740 -.2320 -.0830 -.0310
75.000 -.3410 -.1810 -.0770 -.0310
90.000 -.2170 -.0770 -.0310
105.000 -.0770 -.0310
120.000 -.0310
135.000
150.000
165.000
180.000

X/LE .5873 .6626 .7390 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
.000 -.1300 .0560 -.1350
40.000 -.1120 .1190 -.1170 -.2490 -.2320 -.2700 -.1510
70.000 -.0570 .0020 .0530 .1130 .0150 -.0400 -.0410
90.000 -.0280 .0260 .1200 .0390 .0050 -.0580 -.0400
105.000 .1360 .0400 -.0110 -.0580 -.0480
110.000 -.1130
120.000 .0050 -.0110 .3060 .0380 -.1870 -.0520 -.0210 -.0910
135.000 .7380 .3390 -.0720 -.0340 -.0420
150.000 .0290 .0100 .3920 .5000 .1300 .0770 .0350
165.000 .0310 .4450 .5940 .2380 .1650 -.1160
180.000 .0420 .0290 .3870

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (5) = 1.396 ALPHAT(2) = -5.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4120	.9840	.0000	-.2160	-.0510	.0440			.0620		.0410	.1550	.0520	-.0630	-.1480
20.000			.3920	-.1620	-.0500	-.0420			.0610		.0520				
40.000			.4550	-.0840	.0160	-.0120			.0530		-.0060	-.0130	-.0190	-.0570	-.1090
55.000			.4680	-.0560	.0560	.1540			.1050		.0370				
70.000			.4620	-.0560	.0440	.2540			.2050		-.0240	-.2440	-.2160	-.0640	.0180
90.000		.9890	.4330	-.0340	.0730	.3320			.2600		-.0570	-.2710	-.2720	-.0820	.0090
120.000			.4320	.0350	.2120	.5010			.3240		-.0770	-.3100	-.3220	-.1150	.0020
142.000										-.2760					
150.000			.4670	.1170	.3280	.7950			.6010		-.1950	-.2020	-.1410	-.0900	-.0280
157.000								.7990							
162.000									.5050						
165.000											-.4110	-.1680	-.1170	-.0850	-.0420
169.000									.5100						
172.000							1.0980								
180.000	1.4120	.9840	.4060	.2110	.3640	.9850			.7560		-.3520	-.2760	-.0800	-.0840	-.0490

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1440							.0590		-.1310
40.000	-.1160	.1050		-.0800	-.2070	-.2380	-.2650			-.1410
70.000		-.0790	-.0330	.0100	.0740	-.0110	-.0570	-.0640		
90.000		-.0530	-.0040	.0880	.0210	-.0210	-.0800	-.0650		
105.000				.1070	.0240	-.0310	-.0860	-.0730		
110.000									-.1260	
120.000		-.0120	-.0180	.2810	.0250	-.2000	-.0740	-.0410	-.0990	
135.000				.6860	.3750	-.0940	-.0450	-.0540		
150.000		.0100	-.0090	.3690	.4600	.1010	.0530	.0120		
165.000		.0140		.4020	.5220	.2070	.1330	-.1410		
180.000		.0220	.0090	.3510						

MACH (5) = 1.396 ALPHAT(3) = -3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3990	1.0380	.0000	-.2440	-.2130	.1490			.0290		-.0370	.0860	.0820	-.0540	-.1260
20.000			.4260	-.1890	-.1490	.1020			.0260		-.0290				
40.000			.4740	-.0870	-.0550	.0110			.0290		-.0310	-.0340	-.0570	-.0290	-.1020
55.000			.4760	-.0560	.0140	.1210			.1230		.0220				
70.000			.4550	-.0660	.0120	.2140			.1980		-.0280	-.2600	-.2310	-.1140	-.0020
90.000		.9720	.4130	-.0520	.0500	.3030			.2590		-.0620	-.2910	-.3000	-.1130	-.0010
120.000			.3990	.0090	.1600	.4770			.3200		-.0950	-.3250	-.2490	-.1600	-.0170

DATE 13 SEP 72 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + 53 + 79 ORBITER FUSELAGE (RBNB02)

MACH (5) = 1.396 ALPHAT(3) = -3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.2890					
150.000			.4170	.0630	.2650	.7670			.5770		-.2170	-.2340	-.1720	-.1210	-.0520
157.000								.7820							
162.000									.4800						
165.000											-.4310	-.1990	-.1500	-.1150	-.0670
169.000									.4740						
172.000							1.0750								
180.000	1.3990	.9290	.3510	.1570	.3020	.9490			.7170		-.3780	-.3050	-.1070	-.1130	-.0810
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.1480							.0520		-.1060					
40.000	-.1150	.1230		-.0600	-.1310	-.2380	-.2860			-.1400					
70.000		-.1030	-.0640	-.0230	.0490	-.0290	-.0790	-.0920							
90.000		-.0740	-.0330	.0650	-.0030	-.0300	-.1000	-.0950							
105.000				.0890	.0180	-.0300	-.1060	-.1000							
110.000									-.1480						
120.000		-.0300	-.0200	.2630	.0190	-.1990	-.0910	-.0580	-.1210						
135.000				.8220	.3560	-.1110	-.0470	-.0510							
150.000		-.0080	-.0240	.3260	.4140	.0710	.0320	-.0060							
165.000		-.0030		.3650	.4590	.1820	.1050	-.1530							
180.000		.0040	-.0090	.3120											

MACH (5) = 1.396 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3800	1.0710	.0000	-.2500	-.2060	.1440			.0000		-.0880	-.1300	.0440	-.0090	-.1050
20.000			.4380	-.1820	-.1300	.1370			.0020		-.0740				
40.000			.4850	-.0900	-.0170	-.0100			.0020		-.0920	-.0390	-.0840	-.0030	-.1030
55.000			.4770	-.0440	.0350	.0910			.0800		.0070				
70.000			.4520	-.0560	.0310	.1570			.1780		-.0390	-.2700	-.2770	-.1390	-.0180
90.000		.9990	.4010	-.0550	.0520	.2700			.2490		-.0680	-.3090	-.3130	-.1330	-.0180
120.000			.3710	-.0100	.1310	.4610			.3220		-.1080	-.3350	-.2800	-.1890	-.0360
142.000										-.2960					
150.000			.3700	.0250	.2190	.7450			.5550		-.2340	-.2610	-.1990	-.1470	-.0720
157.000								.7710							
162.000									.4560						
165.000											-.4450	-.2200	-.1800	-.1410	-.0880
169.000									.4410						
172.000							1.0510								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (5) = 1.396 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3800	.8850	.3050	.1100	.2490	.9120			.6790		-.3970	-.3270	-.1310	-.1400	-.1080
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.1500							.0530		-.0780					
40.000	-.1250	.1830		-.0160	-.0670	-.2200	-.3330			-.1500					
70.000		-.1230	-.0810	-.0510	.0210	-.0460	-.1010	-.1190							
90.000		-.0890	-.0430	.0450	-.0280	-.0490	-.1200	-.1230							
105.000				.0810	.0090	-.0570	-.1290	-.1310							
110.000									-.1630						
120.000		-.0420	.0080	.2640	.0320	-.2000	-.1160	-.0800	-.1370						
135.000				.5680	.3330	-.1230	-.0560	-.0520							
150.000		-.0210	-.0170	.2950	.3740	.0480	.0110	-.0240							
165.000		-.0160		.3340	.4110	.1580	.0790	-.1690							
180.000		-.0070	-.0250	.2820											

MACH (5) = 1.398 ALPHAT(5) = .040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3590	1.1290	.0000	-.2760	-.2570	.1690			-.0210		-.1200	-.1890	.0720	.0320	-.0880
20.000			.4370	-.2020	-.1940	.0730			-.0120		-.1100				
40.000			.5220	-.0840	-.0520	-.0030			-.0230		-.1060	-.0810	-.0850	.0280	-.0890
55.000			.5050	-.0430	.0170	.0830			.0740		-.0030				
70.000			.4510	-.0540	-.0010	.1280			.1640		-.0400	-.2810	-.2970	-.1480	-.0330
90.000		.9340	.3880	-.0630	.0390	.2150			.2440		-.0660	-.3190	-.3270	-.1440	-.0370
120.000			.3390	-.0310	.0990	.4360			.3100		-.1160	-.3420	-.2970	-.2070	-.0460
142.000										-.3030					
150.000			.3380	-.0160	.1720	.7180			.5360		-.2520	-.2880	-.2230	-.1720	-.0770
157.000								.7610							
162.000									.4320						
165.000											-.4580	-.2430	-.2050	-.1630	-.0940
169.000									.4110						
172.000							1.0320								
180.000	1.3590	.8350	.2640	.0670	.1990	.8690			.6450		-.4130	-.3480	-.1490	-.1800	-.1050
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.1450							.0440		-.0660					
40.000	-.1100	.2120		-.0060	-.0160	-.2020	-.3380			-.1400					

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM002)

MACH (5) = 1.390 ALPHAT(5) = .040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1280	-.1070	-.0900	-.0140	-.0670	-.1200	-.1470		
90.000		-.0970	-.0600	.0320	-.0480	-.0730	-.1400	-.1490		
105.000				.0770	-.0060	-.0640	-.1530	-.1560		
110.000									-.1820	
120.000		-.0490	.0140	.2770	.0280	-.2050	-.1410	-.1030	-.1510	
135.000				.5010	.3080	-.1430	-.0740	-.0630		
150.000		-.0280	.0370	.2590	.3240	.0180	-.0080	-.0470		
165.000		-.0240		.2930	.3600	.1310	.0560	-.1820		
180.000		-.0170	-.0280	.2590						

MACH (5) = 1.393 ALPHAT(6) = 2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4460	1.1130	.0000	-.2790	-.2680	.1860			-.0450		-.1520	-.2210	.1160	.0780	-.0930
20.000			.4210	-.2520	-.2370	.1400			-.0540		-.1510				
40.000			.5290	-.1080	-.1360	.0700			-.0630		-.1310	-.0100	-.0690	.0150	-.0720
55.000			.5510	-.0440	-.0470	.0990			.0490		-.0170				
70.000			.5160	-.0560	-.0440	.1160			.1720		-.0360	-.2930	-.2670	-.1430	-.0800
90.000		1.0310	.4270	-.0770	-.0040	.1230			.2510		-.0590	-.3280	-.3360	-.1540	-.0880
120.000			.3040	-.0540	.0650	.3940			.2920		-.1300	-.3460	-.3170	-.1900	-.0690
142.000										-.3180					
150.000			.2880	-.0580	.1370	.6810			.5100		-.2740	-.3140	-.2470	-.1930	-.0820
157.000								.7490							
162.000									.4070						
165.000											-.4730	-.2650	-.2320	-.1880	-.0890
168.000									.3760						
172.000							1.0080								
180.000	1.4460	.7710	.2050	.0180	.1490	.9210			.6050		-.4340	-.3650	-.1770	-.1880	-.0960

X/LB	.5873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1080							.0390		-.0610
40.000	-.0820	.2130		-.0070	.0080	-.1960	-.3170			-.1160
70.000		-.1320	-.1290	-.1540	-.0670	-.0790	-.1280	-.1680		
90.000		-.1040	-.0690	.0270	-.0590	-.1140	-.1600	-.1710		
105.000				.0930	-.0140	-.1140	-.1880	-.1810		
110.000									-.1950	
120.000		-.0550	.0080	.2210	.0110	-.1970	-.1660	-.1400	-.1580	
135.000				.4710	.2740	-.1650	-.0640	-.0750		
150.000		-.0320	.0620	.2280	.2680	-.0160	-.0280	-.0700		

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBNB02)

MACH (5) = 1.393 ALPHAT(6) = 2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0270		.2550	.3250	.1000	.0280	-.2030		
180.000		-.0250	-.0110	.2340						

MACH (5) = 1.394 ALPHAT(7) = 3.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4640	1.1110	.0000	-.2970	-.2290	.1300			-.0600		-.1790	-.2080	.2040	.0800	-.0680
20.000			.4120	-.2520	-.2370	.0990			-.0710		-.1760				
40.000			.5270	-.1160	-.1520	.0580			-.0850		-.1240	-.0560	-.0560	.0280	-.0380
55.000			.5500	-.0450	-.0320	.0720			-.0100		-.0250				
70.000			.5170	-.0520	-.0580	.1020			.1420		-.0380	-.2960	-.2440	-.1560	-.0830
90.000		1.0300	.4220	-.0830	-.0230	.1030			.2470		-.0640	-.3350	-.3310	-.1750	-.0800
120.000			.2900	-.0870	.0280	.3410			.3200		-.1440	-.3530	-.3280	-.1830	-.0820
142.000										-.3300					
150.000			.2460	-.1000	.0850	.6570			.4860		-.2900	-.3410	-.2690	-.2100	-.0810
157.000								.7080							
162.000									.3820						
165.000											-.4850	-.2800	-.2540	-.2080	-.0850
169.000									.3370						
172.000							.9950								
180.000	1.4640	.7290	.1410	-.0270	.1020	.8070			.5670		-.4480	-.3840	-.1990	-.2090	-.0840

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0490							.0390		-.0640
40.000	-.0340	.2380		.0060	.0170	-.1960	-.2530			-.1220
70.000		-.1440	-.1500	-.1920	-.0920	-.0840	-.1400	-.1810		
90.000		-.1110	-.0890	.0000	-.0920	-.1250	-.1660	-.1940		
105.000				.0600	-.0080	-.1230	-.2160	-.2000		
110.000									-.2130	
120.000		-.0590	.0040	.2880	.0460	-.2070	-.1820	-.1630	-.1750	
135.000				.4040	.2400	-.1800	-.0940	-.0860		
150.000		-.0300	.0570	.2220	.2300	-.0380	-.0470	-.0810		
165.000		-.0250		.2190	.3040	.0660	.0060	-.2140		
180.000		-.0210	.0070	.2060						

AMES 11-707 IA9 OBA + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (5) = 1.396 ALPHAT(8) = 6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4520	1.1090	.0000	-.1870	-.1780	.0970			-.0520		-.1580	-.1900	.2180	.1070	-.0270
20.000			.3930	-.2150	-.1770	.0620			-.0680		-.1540				
40.000			.5160	-.1300	-.1350	-.0170			-.0710		-.0980	-.0290	-.0330	.0560	-.0080
55.000			.5490	-.0470	-.0500	.0160			-.0430		.0230				
70.000			.5180	-.0470	-.0610	.0770			.0750		-.0330	-.2560	-.2480	-.1400	-.0940
90.000		1.0200	.4210	-.0830	-.0330	.1050			.2230		-.0660	-.3310	-.3130	-.1780	-.0970
120.000			.2820	-.1010	-.0070	.2980			.2770		-.1600	-.3550	-.3320	-.1920	-.0920
142.000										-.3330					
150.000			.2140	-.1320	.0280	.6290			.4830		-.3040	-.3720	-.2860	-.2060	-.0800
157.000								.7610							
162.000									.3730						
165.000											-.4950	-.2930	-.2710	-.2090	-.0790
169.000									.3160						
172.000							1.0080								
180.000	1.4520	.7390	.0980	-.0740	.0530	.7420			.5420		-.4590	-.4020	-.2140	-.2230	-.0800

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0382
PHI										
.000	-.0050							.0430		-.0520
40.000	.0000	.2680		.0300	.0560	-.1890	-.2150			-.1040
70.000		-.1480	-.1670	-.2230	-.1130	-.1040	-.1570	-.1940		
90.000		-.1220	-.1040	-.0170	-.1000	-.1320	-.1920	-.2190		
105.000				.0550	.0010	-.1310	-.2390	-.2240		
110.000									-.2270	
120.000		-.0620	.0130	.3070	.0600	-.2090	-.1990	-.1770	-.2020	
135.000				.3630	.2380	-.2080	-.1060	-.0960		
150.000		-.0320	.0640	.2210	.2060	-.0470	-.0580	-.0960		
165.000		-.0230		.2280	.2610	.0510	-.0140	-.2220		
180.000		-.0180	-.0030	.1990						

MACH (9) = 1.391 ALPHAT(9) = 7.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4330	1.0910	.0000	-.1570	-.1850	.1220			-.0520		-.1600	-.2060	.2410	.1290	.0050
20.000			.3580	-.1740	-.1920	.0770			-.0720		-.1610				
40.000			.5020	-.1510	-.1250	-.0090			-.0770		-.1310	-.0270	-.0160	.0620	.0080
55.000			.5430	-.0530	-.0480	-.0130			-.0530		.0160				
70.000			.5100	-.0530	-.0680	.0320			.0010		-.0010	-.2590	-.2300	-.1300	-.1100
90.000		1.0070	.4070	-.0900	-.0450	.0770			.1890		-.0620	-.3130	-.3390	-.1860	-.1200
120.000			.2610	-.1130	-.0370	.2340			.2380		-.1700	-.3680	-.3440	-.2140	-.1090

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

MACH (5) = 1.391 ALPHAT(9) = 7.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2239	.2711	.3203	.3953	.5120
PHI															
142.000										-.3320					
150.000			.1950	-.1560	-.0200	.5860			.4870		-.3270	-.4000	-.3090	-.2260	-.0780
157.000								.7960							
162.000									.3680						
165.000											-.5140	-.3180	-.2920	-.2140	-.0700
169.000									.3040						
172.000							.9900								
180.000	1.4330	.7650	.0770	-.1090	.0000	.6780			.5290		-.4810	-.4220	-.2360	-.2290	-.0700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0340							.0370		-.0380
40.000	.0400	.2810		.0370	.0680	-.1920	-.1920			-.1030
70.000		-.1600	-.1610	-.2610	-.1330	-.1430	-.1800	-.2120		
90.000		-.1350	-.1120	-.0360	-.1070	-.1440	-.2280	-.2470		
105.000				.0500	-.0070	-.1450	-.2510	-.2590		
110.000									-.2460	
120.000		-.0700	.0400	.3210	.0570	-.2200	-.2190	-.2010	-.2230	
135.000				.3580	.2140	-.2140	-.1220	-.1110		
150.000		-.0350	.0820	.1930	.1770	-.0590	-.0710	-.1170		
165.000		-.0240		.2170	.2320	.0370	-.0330	-.2280		
180.000		-.0160	.0020	.1780						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB03) (04 AUG 73)

REFERENCE DATA

XMRP = 28.5300 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH = .999 BETAT (1) = -8.050

SECTION = PORTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.300	.9530	.3000	.0000	-.8200	-.2380	-.1810			-.1940		-.2070	-.1930	-.1630	-.1440	-.0960
20.300			-.3460	-.6940	-.2860	-.1850			-.1870		-.1930				
40.300			-.0280	-.4200	-.1960	-.2810			-.2840		-.2910	-.2210	-.1380	-.0650	.0180
59.300			.1500	-.1800	.0330	.0360			.0180		-.0450				
70.300			.2440	-.0620	.1110	.1110			.0550		-.0490	-.2820	-.0100	.0730	.0930
90.300		.5540	.2990	.0160	.1660	.1340			.0630		-.0570	-.3170	-.0170	.0530	.0630
120.300			.3560	.1730	.2780	.2630			.1030		-.1130	-.1910	-.0180	.0290	.0520
142.300										-.2140					
150.300			.3180	.2050	.3010	.4920			.1200		-.3960	-.1300	-.0430	-.0050	.0210
157.300								.4730							
162.300									.0470						
169.300											-.3110	-.1040	-.0420	-.0010	.0270
169.300									-.0730						
172.300							.8450								
180.300	.9930	.6230	.0770	.1100	.1890	.4930			.1860		-.5490	-.2170	-.2260	-.1300	-.1020

X/LB	.5875	.6628	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.300	-.0380							-.1200		-.0220
40.300	.0450	.0210		-.3370	-.4520	-.2930	-.1660			-.1300
70.300		-.0010	-.0130	.0120	.0970	.0300	.0180	-.0480		
90.300		.0300	.0570	.0700	.0780	-.0040	-.0270	-.0840		
105.300				.1320	.0280	-.0020	-.0490	-.1100		
110.300									-.2610	
120.300		.0500	.1890	.2860	-.0990	-.0660	-.0270	-.0690	-.1630	
135.300				.3960	.1040	-.0590	-.0220	-.1070		
150.300		.0450	.1570	.2000	-.0030	.0030	-.0130	-.1590		
165.300		.0570		.2290	.2150	.0960	.0000	-.2880		
180.300		-.1480	-.0700	-.0140						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (1) = .598 BETAT (2) = -6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0220	.3430	.0000	-.7820	-.1900	-.1340			-.1500		-.1630	-.1510	-.1180	-.0930	-.0610
20.000			-.3510	-.6710	-.2300	-.1420			-.1460		-.1580				
40.000			-.0820	-.4440	-.1600	-.2190			-.2230		-.2530	-.1970	-.1150	-.0510	.0150
55.000			.0600	-.2530	.0000	.0080			-.0160		-.0740				
70.000			.1330	-.1460	.0500	.0670			.0150		-.0850	-.3180	-.0320	.0570	.0800
90.000		.7830	.1910	-.0710	.1210	.0820			.0120		-.1040	-.3450	-.0350	.0330	.0560
120.000			.2740	.1050	.2250	.2070			.0200		-.1410	-.2040	-.0330	.0220	.0500
142.000										-.2570					
150.000			.2800	.1840	.2950	.4680			.0690		-.3830	-.1240	-.0430	.0000	.0270
157.000								.4340							
162.000									.0050						
165.000											-.3340	-.1140	-.0420	.0040	.0200
169.000									-.0790						
172.000							.6670								
180.000	1.0220	.6470	.1060	.1350	.2240	.5370			.2210		-.5070	-.1820	-.1680	-.0780	-.0480

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0180							-.1040		-.0190
40.000	.0290	-.0140		-.3310	-.4160	-.2770	-.1590			-.1450
70.000		-.0110	-.0330	-.0170	.0670	.0070	.0040	-.0610		
90.000		.0190	.0420	.0330	.0390	-.0280	-.0420	-.0940		
105.000				.0810	-.0210	-.0490	-.0660	-.1200		
110.000									-.2690	
120.000		.0500	.1770	.2100	-.1800	-.1020	-.0490	-.0830	-.1760	
135.000				.4380	.0900	-.0860	-.0450	-.1180		
150.000		.0550	.1750	.2450	.0370	-.0310	-.0470	-.1740		
165.000		.0610		.2470	.2290	.0470	-.0420	-.2850		
180.000		-.0220	.0480	.0950						

MACH 1) = .596 BETAT (3) = -4.020

SECTION (1)ORBITER FUSELAGE DEFENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0390	.3460	.0000	-.7490	-.1540	-.0970			-.1170		-.1270	-.1180	-.0810	-.0540	-.0220
20.000			-.3680	-.6400	-.1890	-.1080			-.1160		-.1280				
40.000			-.1580	-.4690	-.1520	-.1740			-.1840		-.2190	-.1720	-.0930	-.0390	.0150
55.000			-.0400	-.3190	-.0320	-.0180			-.0450		-.1000				
70.000			.0200	-.2240	.0030	.0280			-.0270		-.1180	-.3430	-.0480	.0470	.0730
90.000		.7030	.0770	-.1650	.0650	.0340			-.0400		-.1420	-.3670	-.0530	.0260	.0510
120.000			.1980	.0460	.1790	.1490			-.0620		-.1670	-.2200	-.0480	.0130	.0490

AMES 11-7D7 IA9 OEA + 53 + T9 ORBITER FUSELAGE (RBMB03)

MACH (1) = .598 BETAT (3) = -4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.3000					
150.000			.2470	.1650	.2790	.4360			.0190		-.3730	-.1300	-.0430	.0030	.0300
157.000								.3810							
162.000									-.0420						
165.000											-.3540	-.1160	-.0420	.0020	.0190
169.000									-.0810						
172.000							.6790								
180.000	1.0590	.6770	.1320	.1600	.2470	.5720			.2500		-.4810	-.1470	-.1450	-.0410	-.0090

X/LB	.5873	.6626	.7380	.7869	.8263	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.0100							-.0810		.0100
40.000	.0190	-.0480		-.3140	-.3690	-.2410	-.1390			-.1610
70.000		-.0140	-.0470	-.0390	.0380	-.0130	-.0180	-.0680		
90.000		.0180	.0200	-.0050	.0060	-.0540	-.0590	-.1000		
105.000				.0200	-.0580	-.0540	-.0850	-.1320		
110.000									-.2600	
120.000		.0450	.1680	.1280	-.2630	-.1350	-.0750	-.1080	-.1630	
135.000				.4630	.0700	-.1230	-.0730	-.1360		
150.000		.0930	.1810	.2890	.0650	-.0860	-.0820	-.1380		
165.000		.0600		.2620	.2380	-.0050	-.0890	-.2790		
180.000		.0220	.1020	.1470						

MACH (1) = .598 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0010	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0190	.3690	.0000	-.7320	-.1400	-.0840			-.0990		-.1110	-.0970	-.0650	-.0320	-.0030
20.000			-.4020	-.6480	-.1620	-.0950			-.0960		-.1120				
40.000			-.2370	-.5090	-.1410	-.1400			-.1530		-.1970	-.1590	-.0780	-.0340	.0040
55.000			-.1430	-.3970	-.0650	-.0440			-.0740		-.1260				
70.000			-.0910	-.3140	-.0440	-.0130			-.0670		-.1510	-.3680	-.0640	.0260	.0620
90.000		.0160	-.0440	-.2550	.0040	-.0230			-.0890		-.1750	-.3860	-.0720	.0110	.0390
120.000			.1030	-.0360	.1160	.0790			-.1560		-.1960	-.2400	-.0640	.0000	.0330
142.000										-.3580					
150.000			.2000	.1300	.2480	.3890			-.0420		-.3680	-.1380	-.0340	-.0030	.0270
157.000								.3170							
162.000									-.1030						
165.000											-.3670	-.1210	-.0480	-.0020	.0150
169.000									-.1010						
172.000							.0780								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB03)

MACH (1) = .598 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LE	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
10.000	1.0190	.6910	.1450	.1730	.2640	.5870			.2660		-.4740	-.1260	-.1120	-.0250	.0120
X/LE	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0130							-.0730		.0350					
40.000	.0030	-.0900		-.3020	-.3350	-.2100	-.1250			-.1430					
70.000		-.0250	-.0800	-.0700	.0070	-.0380	-.0330	-.0800							
90.000		.0060	-.0020	-.0400	-.0300	-.0760	-.0800	-.1090							
105.000				-.0330	-.1060	-.0790	-.1000	-.1410							
110.000									-.2710						
120.000		.0370	.1450	.0290	-.3570	-.1760	-.1010	-.1250	-.1960						
135.000				.4720	.0310	-.1790	-.1190	-.1600							
150.000		.0580	.1850	.3190	.0970	-.1120	-.1200	-.2070							
165.000		.0550		.2740	.2310	-.0560	-.1340	-.2830							
180.000		.0460	.1240	.1710											

MACH (1) = .598 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0380	.3930	.0000	-.7140	-.1320	-.0790			-.0840		-.1030	-.0880	-.0550	-.0180	.0030
20.000			-.4390	-.6580	-.1410	-.0810			-.0850		-.1100				
40.000			-.3200	-.5400	-.1410	-.1200			-.1240		-.1770	-.1470	-.0700	-.0340	-.0080
55.000			-.2570	-.4720	-.0910	-.0710			-.0960		-.1460				
70.000			-.2120	-.4020	-.0830	-.0540			-.1020		-.1600	-.1010	-.0790	.0180	.0380
90.000		.5190	-.1610	-.3460	-.0540	-.0740			-.1410		-.2090	-.4050	-.0870	.0030	.0380
120.000			.0110	-.1220	.0490	.0020			-.2550		-.2210	-.2630	-.0810	-.0180	.0250
142.000										-.4120					
150.000			.1560	.0840	.2090	.3310			-.1050		-.3610	-.1500	-.0600	-.0110	.0210
157.000								.2330							
162.000									-.1800						
165.000											-.3720	-.1230	-.0480	-.0090	.0160
169.000									-.1220						
172.000							.6610								
180.000	1.0380	.6980	.1550	.1800	.2770	.5990			.2750		-.4600	-.1160	-.0930	-.0170	.0240
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0200							-.0740		.1100					
40.000	-.0110	-.1340		-.2910	-.2840	-.1810	-.1260			-.1570					

[illegible] RELATED TORQUE DATA [illegible]

AMES 11-70, IAS 324 [illegible] ORBITER FUSELAGE [illegible]

MACH (1) = .558 BETAT (1) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0310	-.0910	-.0920	-.0180	-.0540	-.0440	-.0840		
90.000		.0070	-.0160	-.0730	-.0650	-.0990	-.0920	-.1140		
105.000				-.0910	-.1510	-.1280	-.1170	-.1490		
110.000									-.2670	
120.000		.0250	.1220	-.0750	-.4610	-.2100	-.1300	-.1410	-.2020	
135.000				.4610	-.0270	-.2520	-.1700	-.1870		
150.000		.0530	.1800	.3720	.1150	-.1620	-.1620	-.2270		
155.000		.0540		.2840	.2440	-.1190	-.1780	-.2860		
170.000		.0550	.1400	.1840						

MACH (1) = .598 BETAT (1) = 2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	[illegible]	.0180	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	[illegible]	.3835
PHI															
.000	1.0360	[illegible]	.0000	-.7260	-.1370	-.3820			-.0920		-.1080	-.0920	-.0580	-.0240	-.3080
20.000			-.4890	-.6790	-.1410	-.0880			-.0940		-.1180				
40.000			-.4140	-.5830	-.1490	-.1080			-.1210		-.1780	-.1420	-.0710	-.0440	-.3070
55.000			-.3420	-.5450	-.1230	-.0900			-.1190		-.1670				
70.000			-.3440	-.4880	-.1290	-.3870			-.1320		-.2050	-.3980	-.0870	.0100	.3480
90.000		.4200	-.2950	-.4350	-.1120	-.1240			-.1880		-.2430	-.4140	-.1010	-.0120	.3280
125.000			-.2980	-.2050	-.0230	-.0750			-.3530		-.2490	-.2500	-.1070	-.0390	.3080
142.000										-.4870					
150.000			.0940	.0390	.1590	.2650			-.1780		-.3690	-.1630	-.0790	-.0290	.3070
157.000								.1370							
162.000									-.2620						
165.000											-.3850	-.1230	-.0810	-.0170	-.3110
169.000									-.1510						
172.000							.8300								
180.000	1.0360	.7020	.1420	.1710	.2700	.5880			.2590		-.4640	-.1270	-.0920	-.0800	.3130

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0170							.0800		.0530
40.000	-.0270	-.1710		-.2880	-.2650	-.1710	-.1350			-.1980
70.000		-.1740	-.0970	-.1190	-.0460	-.0780	-.0860	-.1020		
90.000		-.1150	-.0360	-.1060	-.0960	-.1230	-.1150	-.1250		
109.000				-.1480	-.1920	-.1580	-.1370	-.1600		
110.000									-.2640	
120.000		.0090	.0920	-.1730	-.3580	-.2690	-.1630	-.1630	-.2170	
135.000				.1280	-.0970	-.3530	-.2310	-.2270		
150.000		.0420	.1680	.3670	.1520	-.2140	-.2090	-.2490		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM803)

MACH (1) = .598 BETAT (6) = 2.060

SECTIO (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.00		.0240		.2750	.2340	-.1390	-.2300	-.2830		
180.00		.0470	.1320	.1760						

MACH (1) = .598 BETAT (7) = 4.100

SECTIO (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.00	1.0440	.3440	.0000	-.7570	-.1570	-.1040			-.1110		-.1290	-.1150	-.0840	-.0440	-.0280
20.00			-.5520	-.7190	-.1570	-.1040			-.1110		-.1410				
40.00			-.5220	-.6420	-.1590	-.1130			-.1260		-.1870	-.1520	-.0840	-.0480	-.0180
55.00			-.4980	-.6420	-.1560	-.1160			-.1450		-.1840				
70.00			-.4790	-.5750	-.1700	-.1220			-.1710		-.2280	-.4090	-.0930	.0020	.0390
90.00		.3030	-.4300	-.5290	-.1700	-.1770			-.2370		-.2710	-.4310	-.1140	-.0190	.0230
120.00			-.1970	-.2960	-.1060	-.1560			-.4630		-.2820	-.3090	-.1260	-.0630	-.0100
142.00										-.6310					
150.00			.0310	-.0190	.0970	.1580			-.2520		-.3840	-.1850	-.1040	-.0450	.0030
157.00								.0300							
162.00									-.3610						
165.00											-.4220	-.1380	-.0810	-.0550	-.0360
169.00									-.1980						
172.00							.5850								
180.00	1.0440	.6900	.1400	.1560	.2510	.5630			.2420		-.4660	-.1400	-.1120	-.0410	-.0100

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.00	.0100							-.0850		.0190
40.00	-.0340	-.1640		-.2290	-.2150	-.1730	-.1560			-.2920
70.00		-.0440	-.1210	-.1600	-.0730	-.1150	-.1030	-.1350		
90.00		-.0150	-.0610	-.1430	-.1290	-.1550	-.1440	-.1520		
105.00				-.2050	-.2450	-.1940	-.1670	-.1810		
110.00									-.2820	
120.00		-.0150	.0600	-.2770	-.6630	-.3110	-.2030	-.2020	-.2370	
135.00				.4060	-.1740	-.4280	-.3070	-.2830		
150.00		.0300	.1400	.3360	.1620	-.2660	-.2570	-.2760		
165.00		-.0120		.2490	.1990	-.2820	-.2870	-.2800		
180.00		.0220	.1050	.1450						

AMES 11-FT TA9 CRA 03 + T1 ORBITER FUSELAGE RD=B03

MACH (1) = .595 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3295	.3953	.5120
PHI															
.000	1.0090	.3150	.0000	-.7740	-.1880	-.1370			-.1440		-.1670	-.1320	-.1190	-.0760	-.0590
20.000			-.6050	-.7580	-.1890	-.1370			-.1470		-.1720				
40.000			-.6250	-.7140	-.1900	-.1310			-.1450		-.2050	-.1660	-.1000	-.0540	-.0280
55.000			-.6200	-.7250	-.1850	-.1390			-.1630		-.1990				
70.000			-.6100	-.6500	-.2110	-.1540			-.2070		-.2500	-.4150	-.1020	-.0260	.0360
90.000		.1690	-.5650	-.6230	-.2210	-.2150			-.2790		-.2970	-.4240	-.1230	-.0260	.0190
120.000			-.3200	-.3840	-.1810	-.2400			-.5620		-.3130	-.3980	-.1510	-.0660	-.0300
142.000										-.8000					
155.000			-.0500	-.0970	.0190	.0870			-.3330		-.3970	-.2140	-.1270	-.0510	-.0040
157.000								-.1040							
162.000									-.4730						
165.200											-.4640	-.1580	-.1170	-.0280	-.0150
169.000									-.2500						
172.000							.5160								
180.000	1.0090	.6390	.1080	.1170	.2180	.5220			.1950		-.5220	-.1710	-.1350	-.0780	-.0450
X/LB	.5873	.6525	.7380	.7869	.8283	.8848	.9282	.9699	1.0015	1.0392					
PHI															
.000	-.0140							-.1120		.0180					
40.000	-.0430	-.1820		-.2160	-.2310	-.2010	-.1800			-.2910					
70.000		-.0500	-.1360	-.1900	-.0970	-.1480	-.1230	-.1530							
90.000		-.0250	-.0830	-.1700	-.1560	-.1720	-.1510	-.1690							
105.000				-.2420	-.2760	-.2120	-.1850	-.1890							
110.000									-.2790						
120.000		-.0370	.0310	-.3600	-.7600	-.3420	-.2280	-.2240	-.2540						
135.000				.3970	-.2460	-.5320	-.3820	-.3270							
150.000		-.0170	.0770	.2510	.1460	-.3140	-.2930	-.2920							
165.000		-.0700		.2040	.1540	-.3560	-.3370	-.2870							
180.000		-.0170	.0600	.1020											

MACH (1) = .599 BETAT (9) = 8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3295	.3953	.5120
PHI															
.000	.9820	.2660	.0000	-.8200	-.2400	-.1850			-.1900		-.2090	-.1860	-.84	[illegible]	-.04.
20.000			-.6790	-.8210	-.2400	-.1810			-.1660		-.2150				
40.000			-.7450	-.8060	-.2380	-.1620			-.1740		-.2330	[illegible]	[illegible]	[illegible]	[illegible]
55.000			-.7490	-.8170	-.2210	-.1670			-.1870		-.214				
70.000			-.7690	-.7360	-.2470	-.1860			-.2250		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.000		.0590	-.7190	-.7370	-.2760	.2440			-.3037		-.121	[illegible]	[illegible]	[illegible]	[illegible]
120.000			-.4470	-.4930	-.2740	-.2150			-.6660		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AMES 11-7ft IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (1) = .599 BETAT (9) = 8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.9970					
150.000			-.1300	-.1750	-.0590	-.0090			-.4210		-.4160	-.2440	-.1520	-.0610	-.0760
157.000								-.2380							
162.000									-.5980						
165.000											-.5280	-.1920	-.2210	-.2070	-.1810
169.000									-.3110						
172.000							.4430								
180.000	.9820	.6280	.0830	.0900	.1720	.4660			.1460		-.5880	-.2120	-.1860	-.1260	-.1100

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0310							-.1270		-.0350
40.000	-.0340	-.1540		-.2800	-.3050	-.2420	-.2430			-.2880
70.000		-.0640	-.1620	-.2280	-.1280	-.1880	-.1690	-.1940		
90.000		-.0430	-.1050	-.2070	-.1920	-.2080	-.1870	-.1980		
105.000				-.2770	-.3040	-.2530	-.2130	-.2200		
110.000									-.2830	
120.000		-.0480	-.0030	-.4050	-.8210	-.3770	-.2710	-.2540	-.2630	
135.000				.3560	-.3280	-.6450	-.4580	-.3810		
150.000		-.1170	-.0290	.1530	.0480	-.3790	-.3510	-.3160		
165.000		-.1280		.1490	.0780	-.4410	-.3980	-.2950		
180.000		-.0790	.0060	-.0070						

MACH (2) = .901 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1490	.5610	.0000	-.9220	-.3570	-.1516			-.2190		-.3270	-.4120	-.2410	-.1030	-.0190
20.000			-.0320	-.7180	-.3990	-.1630			-.1920		-.3050				
40.000			.1970	-.4340	-.2090	-.2780			-.3030		-.3930	-.4520	-.1730	-.0380	.0950
55.000			.3140	-.1930	.0460	.0490			.0070		-.0810				
70.000			.3730	-.0750	.1200	.1360			.0540		-.0740	-.6630	.0250	.1020	.1370
90.000		.9770	.3840	.0030	.2060	.1780			.0700		-.0780	-.7680	.0220	.0830	.1090
120.000			.4110	.1670	.3140	.3430			.1370		-.1240	-.7810	.0190	.0580	.0940
142.000										-.2730					
150.000			.3580	.2150	.3420	.5960			.3060		-.4960	-.5060	-.0380	.0270	.0540
157.000								.6140							
162.000									.2250						
165.000											-.4930	-.4240	-.0240	.0450	.0650
169.000									.0860						
172.000							.7970								

AMES 11-70T IA9 OEA + 32 + 59 ORBITER FUSELAGE (RBM803)

MACH (2) = .901 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1490	.7390	.1230	.1280	.2280	.6360			.3640		-.9770	-.6340	-.1500	-.1290	-.1250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0900							-.1310		-.1330
40.000	.*640	.2020		-.1900	-.3220	-.3100	-.2170			-.1710
75.000		.0*30	.0180	.0280	.1100	.0480	.0700	.0150		
90.000		.0760	.0940	.1080	.0800	.0090	.0340	.0070		
105.000				.1780	.0210	-.0090	.0190	-.0210		
110.000									-.2830	
120.000		.0*60	.2340	.3580	-.1190	-.0460	.0370	-.0030	-.1720	
135.000				.4830	.1620	-.0070	.0610	-.0150		
150.000		.0620	.2330	.2930	.0740	.0860	.0930	-.0780		
165.000		.1010		.3200	.2790	.1810	.1230	-.3160		
180.000		-.1070	.0210	.0970						

MACH (2) = .900 BETAT (2) = -8.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1770	.5800	.0000	-.9410	-.3290	-.1280			-.1870		-.2880	-.3840	-.1270	-.0540	.0170
20.000			-.0590	-.7680	-.3890	-.1360			-.1730		-.2780				
40.000			.1260	-.5500	-.2390	-.2260			-.2660		-.3610	-.4390	-.1240	-.0270	.0810
55.000			.2210	-.3310	-.0150	.0120			-.0410		-.1240				
70.000			.2640	-.2150	.0470	.0860			-.0070		-.1220	-.6930	-.0090	.0870	.1230
90.000		.9060	.2790	-.1200	.1330	.1190			-.0090		-.1270	-.7930	-.0170	.0720	.0980
120.000			.3210	.0840	.2590	.2830			.0450		-.1550	-.7970	.0170	.0560	.0900
142.000										-.6470					
150.000			.3130	.1740	.3210	.5760			.2760		-.4660	-.5080	-.0070	.0340	.0660
157.000								.5780							
162.000									.1940						
165.000											-.5910	-.4690	-.0040	.0390	.0610
169.000									.0900						
172.000							.0140								
180.000	1.1770	.7830	.1300	.1360	.2490	.6700			.3860		-1.0690	-.6220	-.0910	-.0490	-.0090

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1010							-.1270		-.0990
40.000	.1460	.1550		-.2080	-.3340	-.2780	-.1970			-.1780

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (2) = .900 BETAT (2) = -6.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0430	.0010	-.0120	.0560	.0070	.0420	-.0020		
90.000		.0720	.0800	.0610	.0130	-.0310	.0030	-.0080		
105.000				.1170	-.0600	-.0530	-.0160	-.0360		
110.000									-.2850	
120.000		.0880	.2270	.2870	-.2440	-.1010	-.0040	-.0330	-.1860	
135.000				.5240	.1430	-.0630	.0130	-.0520		
150.000		.0910	.2410	.3260	.1050	.0280	.0430	-.1150		
165.000		.1010		.3330	.2940	.1140	.0660	-.3320		
180.000		.0120	.1120	.1820						

MACH (2) = .900 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1910	.5900	.0000	-.9540	-.2300	-.1020			-.1590		-.2680	-.3550	-.0850	-.0170	.0490
20.000			-.0820	-.8060	-.3630	-.1140			-.1540		-.2610				
40.000			.0640	-.6540	-.2610	-.1820			-.2340		-.3260	-.4160	-.0830	-.0120	.0800
55.000			.1320	-.4910	-.0830	-.0170			-.0900		-.1570				
70.000			.1640	-.3470	-.0030	.0460			-.0670		-.1590	-.7200	-.0300	.0810	.1180
90.000		.8370	.1740	-.2370	.0730	.0710			-.0770		-.1550	-.8100	-.0410	.0650	.0910
120.000			.2480	.0050	.2020	.2290			-.0430		-.1600	-.7900	.0140	.0470	.0840
142.000										-.8870					
150.000			.2770	.1510	.3020	.5480			.2440		-.4790	-.4860	.0010	.0380	.0710
157.000								.5340							
162.000									.1620						
165.000											-.7850	-.4300	.0000	.0400	.0570
169.000									.0990						
172.000							.8240								
180.000	1.1910	.7820	.1430	.1510	.2770	.7000			.4070		-1.0950	-.5130	-.0650	-.0080	.0300

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1100							-.1060		-.0340
40.000	.1290	.1110		-.2520	-.3380	-.2480	-.1820			-.1720
70.000		.0460	-.0090	-.0480	.0150	-.0330	.0200	-.0100		
90.000		.0700	.0660	.0170	-.0430	-.0690	-.0170	-.0240		
105.000				.0620	-.1300	-.1050	-.0410	-.0550		
110.000									-.2680	
120.000		.0880	.2220	.2090	-.3480	-.1570	-.0400	-.0610	-.1930	
135.000				.5495	.1190	-.1310	-.0410	-.0910		
150.000		.0980	.2480	.3660	.1400	-.0320	-.0070	-.1500		

AMES 11-FOOT TWT 249 OEA = 83 + 79 ORBITER FUSELAGE (RBM803)

MACH (2) = .900 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8293	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.1000		.3470	.3050	.0470	.0140	-.3310		
180.000		.0840	.1750	.2460						

MACH (2) = .898 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2000	.6040	.0000	-.9650	-.1290	-.0910			-.1470		-.2560	-.2360	-.0610	.0110	.0720
20.000			-.1140	-.8440	-.1090	-.1010			-.1430		-.2580				
40.000			-.0010	-.7230	-.2460	-.1520			-.2140		-.2990	-.3840	-.0990	.0040	.0770
55.000			.0470	-.6440	-.0850	-.0450			-.1300		-.2090				
70.000			.0630	-.5170	-.0390	.0040			-.1140		-.2370	-.7330	-.0530	.0710	.1080
90.000		.7650	.0750	-.3780	.0160	.0210			-.1330		-.2350	-.8160	-.0590	.0570	.0770
120.000			.1620	-.0815	.1420	.1720			-.1280		-.2370	-.7610	-.0030	.0380	.0750
142.000										-1.0240					
150.000			.2320	.1180	.2750	.3110			.2050		-.6480	-.4210	-.0020	.0340	.0680
157.000								.4800							
162.000									.1140						
165.000											-.8790	-.3630	.0260	.0420	.0800
169.000									.0940						
172.000							.8210								
180.000	1.2000	.7790	.1470	.1610	.2950	.7140			.4140		-1.0870	-.2100	-.0410	.0170	.0530

X/LB	.5873	.6626	.7380	.7869	.8293	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1170							-.0820		.0140
40.000	.1200	.0650		-.3030	-.3460	-.2420	-.1780			-.1640
70.000		.0460	-.0140	-.0830	-.0430	-.0710	-.0040	-.0250		
90.000		.0700	.0580	-.0250	-.1070	-.1150	-.0450	-.0380		
105.000				.0060	-.2100	-.1490	-.0680	-.0740		
110.000									-.2850	
120.000		.0870	.2120	.1250	-.4310	-.2100	-.0780	-.0810	-.2070	
139.000				.5590	.0870	-.2190	-.1040	-.1330		
150.000		.1010	.2450	.4030	.1690	-.1003	-.0690	-.1880		
163.000		.1000		.3610	.2960	-.0210	-.0510	-.3190		
180.000		.0900	.1910	.2610						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM803)

MACH (2) = .899 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2050	.5950	.0000	-.9700	-.1380	-.0920			-.1380		-.2580	-.3010	-.0540	.0110	.0690
20.000			-.1770	-.9040	-.1530	-.0980			-.1460		-.2960				
40.000			-.1320	-.8410	-.0650	-.1140			-.1840		-.3750	-.3720	-.0380	.0020	.0640
55.000			-.1260	-.8300	-.0610	-.0950			-.1880		-.3950				
70.000			-.1290	-.8020	-.0810	-.0730			-.1960		-.4800	-.7990	-.0730	.0590	.1050
90.000		.5960	-.1260	-.7010	-.0860	-.0820			-.2410		-.4930	-.8420	-.0880	.0430	.0710
120.000			-.0030	-.2930	-.0030	.0300			-.3070		-.5540	-.7550	-.0540	.0050	.0500
142.000										-1.1340					
150.000			.1330	.0100	.1870	.4060			.1110		-.7910	-.4840	-.0260	.0320	.0570
157.000								.3240							
162.000									-.0020						
165.000											-.8560	-.5160	.0110	.0250	.0260
169.000									.0700						
172.000							.7790								
180.000	1.2050	.7750	.1560	.1610	.2970	.7130			.4100		-1.0750	-.2760	-.0500	.0180	.0520

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1170							-.0790		-.0140
40.000	.0810	-.0600		-.2620	-.2850	-.2170	-.1970			-.2560
70.000		.0450	-.0280	-.1370	-.1430	-.2230	-.0600	-.0780		
90.000		.0660	.0410	-.0950	-.2230	-.3020	-.1160	-.0860		
105.000				-.0 '50	-.3600	-.3650	-.1380	-.1230		
110.000									-.2980	
120.000		.0720	.1780	-.0690	-.5900	-.4440	-.1800	-.1740	-.2540	
135.000				.5370	-.0040	-.6040	-.2880	-.2770		
150.000		.0910	.2280	.4330	.2180	-.3020	-.2100	-.3100		
165.000		.0690		.3520	.3020	-.2210	-.2180	-.3270		
180.000		.0680	.1940	.2640						

MACH (2) = .898 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1870	.5780	.0000	-.9740	-.1920	-.1060			-.1520		-.2680	-.3540	-.0780	-.0080	.0410
20.000			-.2190	-.9400	-.2470	-.1110			-.1580		-.3120				
40.000			-.2100	-.8980	-.1250	-.1180			-.1850		-.3920	-.3830	-.0440	.0000	.0500
55.000			-.2210	-.9140	-.0700	-.1170			-.2110		-.4340				
70.000			-.2320	-.9020	-.0610	-.1020			-.2350		-.5360	-.8040	-.1000	.0600	.1000
90.000		.5090	-.2240	-.8050	-.1340	-.1350			-.2930		-.5770	-.5130	-.0970	.0390	.0630
120.000			-.0860	-.3880	-.0940	-.0540			-.4020		-.6640	-.6320	-.0940	-.0100	.0400

AMES 11-707 IA9 OEA + S3 + T3 ORBITER FUSELAGE (RBMB03)

MACH (2) = .898 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1870					
150.000			.0870	-.0490	.1240	.3360			.0510		-.9300	-.4980	-.0300	.0190	.0490
157.000								.2340							
162.000									-.0780						
165.000											-.6950	-.5440	-.0230	-.0230	-.0200
169.000									.0450						
172.000							.7370								
180.000	1.1870	.7790	.1560	.1570	.2820	.6890			.3960		-1.0630	-.4400	-.0720	-.0060	.0250

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1080							-.1040		-.0310
40.000	.0660	-.1240		-.2370	-.2310	-.2100	-.1840			-.2780
70.000		.0480	-.0970	-.1610	-.1730	-.3840	-.1370	-.1220		
90.000		.0650	.0290	-.1230	-.2600	-.4390	-.1660	-.1200		
105.000				-.1400	-.4320	-.4410	-.2120	-.1500		
110.000									-.3220	
120.000		.0600	.1590	-.1350	-.6800	-.5240	-.3890	-.2040	-.2910	
135.000				.5270	-.0360	-.7170	-.4940	-.3200		
150.000		.0720	.2020	.3680	.2480	-.5380	-.4030	-.3640		
165.000		.0410		.3200	.2830	-.2880	-.3380	-.3160		
180.000		.0660	.1770	.2430						

MACH (2) = .901 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1650	.5690	.0000	-.9610	-.5160	-.1350			-.1830		-.2940	-.3940	-.1240	-.0430	.0060
20.000			-.2530	-.9550	-.3810	-.1380			-.1960		-.3380				
40.000			-.2780	-.9460	-.3360	-.1320			-.2070		-.4170	-.4090	-.0510	-.0170	.0430
55.000			-.3080	-.9840	-.1320	-.1390			-.2390		-.4680				
70.000			-.3300	-.9830	-.1480	-.1370			-.2700		-.5910	-.6270	-.1370	.0590	.1030
90.000		.4180	-.3110	-.8950	-.1610	-.1810			-.3400		-.6500	-.3980	-.1550	.0410	.0640
120.000			-.1720	-.4920	-.2250	-.1330			-.4820		-.7690	-.5010	-.0850	-.0330	.0210
142.000										-1.2430					
150.000			.0220	-.1210	.0410	.2530			-.0170		-1.0820	-.4740	-.0070	.0000	.0070
157.000								.1320							
162.000									-.1560						
165.000											-1.2230	-.4710	-.0370	-.1030	-.0790
169.000									.0100						
172.000							.6750								

AMES 11-707 IA9 OEA + 33 + T9 ORBITER FUSELAGE (RBM003)

MACH (2) = .901 BETAT (7) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1630	.7580	.1320	.1240	.2440	.6510			.3640		-1.0420	-.6470	-.0310	-.0510	-.0180

X/LB	.5373	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0980							-.1220		-.0690
40.000	.0600	-.1520		-.2410	-.2560	-.2630	-.2360			-.3220
70.000		.0470	-.0420	-.1810	-.1960	-.4690	-.2490	-.1850		
90.000		.0560	.0220	-.1460	-.2970	-.4800	-.3560	-.1620		
105.000				-.1730	-.4710	-.4840	-.4170	-.2030		
110.000									-.3220	
120.000		.0440	.1450	-.1830	-.7240	-.6000	-.5090	-.3240	-.2920	
135.000				.5150	-.0650	-.6170	-.7900	-.5740		
150.000		.0030	.1310	.2910	.2020	-.3570	-.4750	-.5230		
165.000		-.0070		.2940	.2460	-.3330	-.3950	-.3430		
180.000		.0250	.1410	.1930						

MACH (2) = .900 BETAT (8) = 8.270

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1360	.5560	.0000	-.9500	-.3580	-.1630			-.2150		-.3240	-.4320	-.2520	-.0710	-.0320
20.000			-.2940	-.9770	-.3910	-.1670			-.2250		-.3750				
40.000			-.3490	-1.0010	-.5460	-.1460			-.2260		-.4560	-.5250	-.0820	-.0260	.0440
55.000			-.3990	-1.0550	-.2680	-.1510			-.2570		-.4980				
70.000			-.4360	-1.0560	-.2600	-.1600			-.2970		-.6360	-.4630	-.1600	.0680	.1070
90.000		.3220	-.4090	-.9700	-.4290	-.2250			-.3850		-.7090	-.3470	-.1920	.0480	.0670
120.000			-.2500	-.5790	-.3380	-.2220			-.5690		-.8410	-.4610	-.1280	-.0470	.0100
142.000										-1.2780					
150.000			-.0320	-.1810	-.0360	.1670			-.0880		-1.1350	-.5430	-.0080	-.0020	-.0790
157.000								.0440							
162.000									-.2120						
165.000											-1.2310	-.6680	-.1200	-.1580	-.1120
169.000									-.0150						
172.000							.6140								
180.000	1.1360	.7400	.1240	.1030	.2120	.6070			.3330		-.9210	-.6780	-.1000	-.1310	-.1040

X/LB	.5373	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0880							-.1270		-.1260
40.000	.0750	-.0790		-.2700	-.2840	-.2680	-.2800			-.3340

AMES 11-707 IA9 ORA + S3 + T9 ORBITER FUSELAGE (RBM803)

MACH (2) = .900 BETAT (8) = 8.270

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5875	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0440	-.0480	-.1900	-.2140	-.4970	-.3780	-.2010		
90.000		.0510	.0130	-.1520	-.3190	-.5100	-.5020	-.2090		
105.000				-.1080	-.4940	-.5390	-.5340	-.2020		
110.000									-.3110	
120.000		.0420	.1300	-.1310	-.7490	-.6570	-.5790	-.4200	-.3230	
135.000				.3580	-.1010	-.9100	-.9040	-.6850		
150.000		-.0410	.1190	.2770	.1650	-.4030	-.5440	-.5090		
165.000		-.0590		.2570	.1880	-.3860	-.4520	-.3610		
180.000		-.0470	.0180	.0930						

MACH (3) = 1.101 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1353	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2330	.7510	.0000	-.5000	-.1360	.0130			.0970		-.0560	-.1420	-.2420	-.3640	-.4200
20.000			.2460	-.3520	-.1650	-.1080			.1150		-.0400				
40.000			.4440	-.1570	.0160	-.1350			-.1340		-.1240	-.1770	-.1880	-.2020	-.1490
55.000			.5460	.0300	.2220	.2210			.1750		.1350				
70.000			.5840	.1160	.3030	.3120			.2330		.1390	-.3180	-.2240	-.0140	-.0040
90.000		1.1230	.5870	.1770	.3670	.3610			.2590		.1430	-.3820	-.3030	-.0230	-.0220
120.000			.5800	.3160	.4640	.5230			.3550		.1350	-.4060	-.2020	-.0600	-.0230
142.000										-.2320					
150.000			.5240	.3580	.4890	.7630			.5280		-.2060	-.2050	-.1970	-.1360	-.0530
157.000								.7930							
162.000									.4530						
165.000											.3720	-.1690	-.1940	-.1340	-.0490
169.000									.3240						
172.000							.9660								
180.000	1.2330	.8820	.3060	.2820	.3860	.8060			.5700		-.7030	-.3120	-.4230	-.2660	-.2960

X/LB	.5875	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1340							-.0220		-.1640
40.000	.2430	.3610		-.0970	-.1290	-.4750	-.3440			-.1890
70.000		.0960	.0910	.1690	.2220	.0190	.0060	.1260		
90.000		.1080	.1410	.2490	.1890	.0200	-.0320	.1900		
105.000				.3070	.1530	.0010	-.0350	.1270		
110.000									-.1740	
120.000		.0790	.3020	.5460	.0570	-.0390	.0410	.1000	-.0370	
135.000				.5980	.2940	.0880	.1580	.1230		
150.000		.0350	.3180	.3800	.1780	.2170	.2410	.1190		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (3) = 1.101 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0570		.4380	.3940	.3220	.2930	-.1330		
180.000		-.2230	.1410	.2320						

MACH (3) = 1.100 BETAT (2) = -6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2870	.7700	.0000	-.5070	-.1700	.1660			.0870		-.0390	-.1190	-.2270	-.3620	-.3720
20.000			.2300	-.3740	-.1360	.1460			.0880		-.0390				
40.000			.3890	-.2270	.0000	.0410			-.0190		-.1230	-.1770	-.1850	-.2340	-.1630
55.000			.4670	-.0910	.1680	.2070			.1730		.0520				
70.000			.4930	-.0170	.2250	.2820			.2100		.0460	-.3480	-.2770	-.0400	-.0120
90.000		1.0590	.4950	.0640	.3070	.3190			.2180		.0110	-.4160	-.3410	-.0540	-.0300
120.000			.5090	.2450	.4180	.4820			.2860		.0370	-.4290	-.2200	-.0930	-.0260
142.000										-.3850					
150.000			.4850	.3320	.4780	.7490			.5070		-.2620	-.2130	-.2080	-.1390	-.0510
157.000								.7640							
162.000									.4320						
165.000											-.5040	-.1920	-.2150	-.1350	-.0590
169.000									.3360						
172.000							.9730								
180.000	1.2870	.9010	.3140	.3070	.4140	.8370			.5920		-.6840	-.3310	-.3790	-.2010	-.1620

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							-.0340		-.1580
40.000	.2290	.3170		-.1520	-.1860	-.4930	-.3330			-.2130
70.000		.0940	.1110	.1610	.1870	-.0050	-.0570	.0540		
90.000		.1090	.1870	.2260	.1450	-.0070	-.0650	.0490		
105.000				.2770	.0910	-.0100	-.0650	.0010		
110.000									-.1900	
120.000		.0920	.3320	.4980	.0000	-.0580	.0100	-.0020	-.0930	
135.000				.6600	.3090	.0420	.1200	.0720		
150.000		.0570	.3500	.4270	.2460	.1690	.2000	.0730		
165.000		.0650		.4700	.4400	.2670	.2460	-.1640		
180.000		-.0840	.2080	.3110						

AMES 11-707 IA9 OA4 + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (3) = 1.102 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3030	.7900	.0000	-.5120	-.2640	.1830			.1060		-.0080	-.1160	-.2070	-.3250	-.1400
20.000			.2060	-.3980	-.1420	.1640			.1050		-.0190				
40.000			.3340	-.2800	.0000	.0770			.0170		-.1130	-.1610	-.1980	-.2500	-.1580
55.000			.3930	-.1950	.1400	.2100			.1470		-.0040				
70.000			.4130	-.1440	.1830	.2620			.1760		-.0310	-.3670	-.3120	-.0700	-.0190
90.000		.9990	.4110	-.0580	.2550	.2830			.1760		-.0560	-.4350	-.3720	-.0820	-.0380
120.000			.4470	.1760	.3710	.4340			.2160		-.0530	-.4530	-.2370	-.1040	-.0280
142.000										-.5280					
150.000			.4580	.3050	.4620	.7280			.4820		-.3020	-.2250	-.2180	-.1330	-.0480
157.000								.7290							
162.000									.4060						
165.000											-.6240	-.2170	-.2260	-.1330	-.0610
169.000									.3500						
172.000							.9830								
180.000	1.3030	.9200	.3310	.3160	.4450	.8630			.6120		-.6710	-.3440	-.2660	-.1600	-.1020

X/LB	.5875	.6625	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							-.0370		-.1300
40.000	.2090	.2710		-.2050	-.2430	-.5030	-.3300			-.2290
70.000		.0920	.1330	.1470	.1570	-.0310	-.0960	.0110		
90.000		.1090	.1970	.2030	.1080	-.0320	-.0940	-.0060		
105.000				.2400	.0390	-.0530	-.0850	-.0470		
110.000									-.2470	
120.000		.0940	.3510	.4310	-.0560	-.0980	-.0150	-.0460	-.1510	
135.000				.7110	.3150	-.0800	.0750	.0270		
150.000		.0800	.3760	.4730	.3120	.0810	.1470	.0330		
165.000		.0330		.4980	.4680	.1950	.1860	-.1960		
180.000		-.0170	.3170	.4170						

MACH (3) = 1.100 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.7820	.0000	-.5240	-.2520	.1900			.1200		.0080	-.1190	-.2040	-.2990	.0300
20.000			.1830	-.4280	-.2640	.1760			.1170		-.0110				
40.000			.2770	-.3380	.0520	.1160			.0470		-.0930	-.1680	-.2180	-.2800	-.1190
55.000			.3180	-.2850	.1280	.1980			.1240		-.0440				
70.000			.3270	-.2510	.1610	.2360			.1440		-.0920	-.3980	-.3500	-.0950	-.0320
90.000		.9310	.3230	-.1620	.2140	.2460			.1310		-.1110	-.4630	-.4040	-.1010	-.0510
120.000			.3760	.0920	.3220	.3840			.1440		-.1340	-.4840	-.2630	-.1210	-.0460

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (3) = 1.100 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5880					
150.000			.4220	.2720	.4390	.6950			.4470		-.3530	-.2690	-.2300	-.1400	-.0570
157.000								.6780							
162.000									.3650						
165.000											-.0850	-.2470	-.2220	-.1290	-.0670
169.000									.3460						
172.000							.9800								
180.000	1.3100	.9300	.3380	.3240	.4590	.6750			.6170		-.6610	-.4080	-.2080	-.1380	-.0720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							-.0100		-.1260
40.000	.1760	.2150		-.2600	-.2620	-.4990	-.3130			-.2500
70.000		.0970	.1410	.1320	.1290	-.0580	-.1300	-.0350		
90.000		.1120	.2100	.1750	.0710	-.0640	-.1280	-.0470		
103.000				.1930	-.0060	-.0920	-.1160	-.0850		
110.000									-.2670	
120.000		.0990	.3530	.3500	-.1140	-.1320	-.0470	-.0870	-.1950	
139.000				.7370	.3060	-.1670	.0310	-.0260		
150.000		.0670	.3930	.5030	.3640	.0140	.1120	-.0170		
165.000		.0480		.5070	.4800	.1250	.1160	-.2260		
180.000		-.0070	.3500	.4490						

MACH (3) = 1.099 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.7870	.0000	-.5240	-.2390	.1920			.1240		.0070	-.1190	-.2000	-.2790	.0480
20.000			.1520	-.4520	-.2930	.1820			.1210		-.0150				
40.000			.2140	-.3840	-.1580	.1390			.0670		-.0900	-.1760	-.2400	-.2970	-.0350
55.000			.2370	-.3550	.1350	.1820			.1000		-.0820				
70.000			.2410	-.3450	.1690	.2090			.1100		-.1480	-.4330	-.3900	-.1080	-.0440
90.000		.6550	.2420	-.2790	.1760	.2040			.0840		-.1730	-.4950	-.4380	-.1170	-.0500
120.000			.3140	.0060	.2620	.3250			.0690		-.2190	-.5160	-.2920	-.1350	-.0660
142.000										-.3330					
150.000			.3850	.2350	.4050	.6520			.4080		-.4130	-.3180	-.2040	-.1560	-.0650
157.000								.6140							
162.000									.3150						
165.000											-.7240	-.2650	-.1690	-.1330	-.0580
169.000									.3390						
172.000							.9640								

MACH (3) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.9360	.3420	.3280	.4670	.8790			.6230		-.6570	-.4810	-.1740	-.1330	-.0610

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							-.0020		-.1340
40.000	.1430	.1460		-.3060	-.2810	-.3390	-.3120			-.2490
70.000		.1090	.1530	.1190	.1030	-.0900	-.1620	-.0850		
90.000		.1250	.2150	.1530	.0440	-.1050	-.1540	-.1050		
105.000				.1560	-.0430	-.1160	-.1420	-.1390		
110.000									-.3030	
120.000		.1080	.3450	.2570	-.1780	-.1820	-.1060	-.1290	-.2400	
135.000				.7440	.2800	-.2450	-.0740	-.0960		
150.000		.0520	.3870	.5690	.4040	-.0350	-.0440	-.0685		
165.000		.0470		.9350	.4890	.0670	.0270	-.2960		
180.000		-.0010	.3560	.4610						

MACH (3) = 1.101 BETAT (6) = 2.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3010	.7770	.0000	-.5270	-.2550	.1920			.1230		.0040	-.1200	-.2070	-.2990	.0480
20.000			.1250	-.4770	-.3140	.1830			.1180		-.0210				
40.000			.1390	-.4510	-.2610	.1550			.0820		-.0910	-.1940	-.2700	-.3350	.0180
55.000			.1620	-.4357	.0280	.1650			.0830		-.1110				
70.000			.1550	-.4240	.1420	.1820			.0830		-.1900	-.4690	-.4280	-.1180	-.0510
90.000		.7810	.1550	-.3630	.1430	.1660			.0470		-.2350	-.5290	-.4700	-.1370	-.0710
120.000			.2420	-.0840	.1760	.2620			-.0030		-.3000	-.5540	-.3130	-.1930	-.0870
142.000										-.6720					
150.000			.3410	.1850	.3580	.6020			.3640		-.4960	-.3820	-.1660	-.1690	-.0810
157.000								.5460							
162.000									.2510						
165.000											-.7530	-.3420	-.1420	-.1450	-.0970
169.000									.3240						
172.000							.9400								
180.000	1.3010	.9300	.3440	.3190	.4800	.8710			.6150		-.6550	-.4390	-.1380	-.1430	-.0730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							-.0060		-.1630
40.000	.1410	.0680		-.2810	-.2620	-.2560	-.2600			-.2470

AMES 11-707 IAS 02A + 93 + T9 ORBITER FUSELAGE (RBMB03)

MACH (3) = 1.101 BETAT (6) = 2.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6526	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0393
PHI										
75.000		.1270	.1640	.1110	.0820	-.1180	-.1870	-.1260		
90.000		.1380	.2160	.1400	.0190	-.1350	-.1760	-.1480		
105.000				.1060	-.0990	-.1580	-.1650	-.1730		
110.000									-.3260	
120.000		.1330	.3400	.1820	-.2430	-.2370	-.1500	-.1650	-.2760	
135.000				.7300	.2350	-.3040	-.2340	-.1530		
150.000		.0780	.3870	.5870	.4290	-.0550	-.1030	-.1530		
165.000		.0340		.5240	.4940	.0050	-.0340	-.3540		
180.000		.0120	.3520	.4490						

MACH (3) = 1.100 BETAT (7) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
.000	1.2960	.7770	.0000	-.5280	-.2560	.1810			.1080		-.0090	-.1160	-.2160	-.3220	-.0890
20.000			.0900	-.5030	-.3270	.1740			.1030		-.0360				
40.000			.0920	-.4820	-.3190	.1620			.0800		-.1020	-.2150	-.2920	-.3740	-.0010
55.000			.0780	-.4960	-.2530	.1530			.0600		-.1390				
70.000			.0690	-.4950	-.0470	.1550			.0500		-.2360	-.4990	-.4570	-.1320	-.0660
90.000		.6970	.0760	-.4340	-.0740	.1160			-.0020		-.2900	-.5590	-.4910	-.1580	-.0860
120.000			.1750	-.1670	.0740	.1800			-.0830		-.3740	-.5910	-.3200	-.2390	-.1170
142.000										-.7210					
150.000			.3010	.1290	.2980	.5400			.3080		-.6040	-.4300	-.2100	-.1940	-.0920
157.000								.4650							
162.000									.2000						
165.000											-.7690	-.4320	-.1570	-.2020	-.1170
169.000									.3030						
172.000							.9040								
180.000	1.2960	.9260	.3370	.3100	.4430	.8530			.6000		-.6470	-.3330	-.2400	-.1670	-.0900

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							-.0410		-.1530
40.000	.1250	-.0310		-.2420	-.2200	-.2380	-.2520			-.2820
70.000		.1480	.1660	.0920	.0710	-.1490	-.2120	-.1570		
90.000		.1570	.2170	.1270	.0040	-.1700	-.1980	-.1810		
105.000				.0920	-.1470	-.1920	-.1960	-.2020		
110.000									-.3550	
120.000		.1660	.3200	.1080	-.3050	-.3020	-.1970	-.2110	-.3150	
135.000				.7170	.2110	-.3850	-.3720	-.2370		
150.000		.1030	.3550	.4880	.4190	-.0620	-.1550	-.2380		

MACH ([illegible]) = 1.197 BETAT ([illegible]) = .160

SECTION AT [illegible] INTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6625	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0160		.4860	.4530	-.0330	-.0340	-.3840		
180.000		-.0310	.3180	.4120						

MACH ([illegible]) = 1.103 BETAT (8) = 6.240

SECTION AT [illegible] INTER FUSELAGE DEPENDENT VARIABLE CP

X/LB	[illegible]	[illegible]	.0198	.0339	.0632	.1355	.1506	.1581	.1732	.1959	.2039	.2191	.2799	.3547	.4125
PHI															
.000	1.2710	.7890	.3000	-.5200	-.1310	.1740			.0930		.0137	-.0160	-.0210	-.0420	-.0780
20.000			.0560	-.5220	-.3910	.1730			.0890		-.0547				
40.000			.0850	-.5230	-.1040	.1700			.0750		-.1120	-.2340	-.3180	-.1850	-.0900
53.000			.0310	-.5540	-.2570	.1530			.0300		-.1410				
75.000			-.0220	-.5540	-.2480	.1430			.0310		-.2040	-.5300	-.4480	-.1510	-.0760
90.000		.110	-.0060	-.4940	-.1780	.0620			-.0290		-.3370	-.5600	-.5060	-.1760	-.0700
120.000			.0690	-.2570	.0070	.1030			-.1460		-.4380	-.6280	-.3330	-.2760	-.1430
142.000										-.7580					
150.000			.2460	.0830	.0250	.4650			.2410		-.6720	-.4740	-.2360	-.2100	-.1420
157.000								.3770							
162.000									.1360						
165.000											-.7680	-.4770	-.2020	-.2360	-.2470
169.000									.2740						
172.000							.8500								
180.000	1.2710	.9047	.3197	.2840	.0080	.8190			.5690		-.6470	-.3360	-.3417	-.1997	-.1510

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1680							-.0380		-.1750
40.000	.1000	-.0720		-.2030	-.2520	-.2530	-.2450			-.3140
70.000		.1510	.1640	.0780	.0540	-.1650	-.2450	-.1900		
90.000		.1540	.2100	.1130	-.0070	-.1920	-.2290	-.1970		
105.000				.0850	-.1680	-.2160	-.2310	-.2240		
110.000									-.3760	
120.000		.1620	.3010	.0650	-.3540	-.3540	-.2520	-.2580	-.3380	
135.000				.6820	.2340	-.4290	-.4490	-.3890		
150.000		.0110	.2470	.5990	.3140	-.0850	-.2080	-.2920		
165.000		-.0050		.4200	.3760	-.0700	-.1430	-.3960		
180.000		-.0370	.2240	.2380						

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (3) = 1.101 BETAT (9) = 7.800

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2540	.7510	.0000	-.5190	-.1380	.1470			.0990		-.0250	-.1280	-.2440	-.3400	-.4090
20.000			.0310	-.5350	-.2140	.1760			.0860		-.0660				
40.000			-.0180	-.5580	-.4120	.1700			.0750		-.1260	-.2560	-.3640	-.4530	-.0920
55.000			-.0600	-.6020	-.4020	.1410			.0500		-.1710				
70.000			-.0930	-.6110	-.3590	.1000			.0200		-.2880	-.5490	-.5070	-.1700	-.0850
90.000		.5460	-.0750	-.5480	-.2560	-.0050			-.0520		-.3650	-.6140	-.4920	-.1960	-.1020
120.000			.0430	-.3160	-.0780	.0470			-.2400		-.4760	-.6510	-.3600	-.3110	-.1700
142.000										-.7790					
150.000			.2030	.0200	.1710	.4080			.1620		-.7040	-.4990	-.2740	-.2260	-.2100
157.000								.3230							
165.000									.1020						
165.000											-.7990	-.4340	-.3250	-.3[illegible]	-.2960
169.000									.2540						
172.000							.6060								
180.000	1.2540	.8900	.3060	.2690	.3810	.7880			.5430		-.6450	-.5400	-.3840	-.2390	-.2300

X/LB	.5873	.6626	.7380	.7869	.8285	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1400							-.0260		-.1800
40.000	.0780	-.0660		-.2690	-.2740	-.2780	-.2730			-.3120
70.000		.1470	.1620	.0720	.0500	-.2050	-.2620	-.2310		
90.000		.1360	.1950	.1060	-.0230	-.2050	-.2460	-.2230		
105.000				.0970	-.1710	-.2250	-.2530	-.2500		
110.000									-.3810	
125.000		.1450	.2860	.1040	-.3630	-.3610	-.2850	-.2990	-.3540	
135.000				.5150	.2170	-.4480	-.5110	-.5080		
150.000		-.1010	.2410	.3660	.2950	-.1070	-.2400	-.3230		
165.000		-.0620		.3620	.3110	-.1080	-.1870	-.4060		
180.000		-.1370	.1190	.2480						

MACH (4) = 1.248 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	.8670	.0070	-.2850	-.0590	-.2300			-.0160		.1670	.0370	-.0790	-.2090	-.3190
20.000			.4140	-.1480	-.0390	-.2050			.0210		.1610				
40.000			.6070	.0320	.1390	-.2050			-.0550		-.0980	-.0040	-.0310	-.1160	-.1030
55.000			.6930	.1820	.3120	.1500			.2690		.1690				
70.000			.7190	.2320	.3640	.2880			.3390		.1610	-.1650	-.1300	.0480	.0460
90.000		1.2040	.6930	.2510	.4110	.3840			.3630		.1290	-.2270	-.1970	.0370	.0320
120.000			.6480	.3420	.4860	.5810			.4700		.1140	-.2570	-.1080	-.0030	.0220

AMES 11-707 IA9 OEA + 83 + T9 ORBITER FUSELAGE (RBM003)

MACH (4) = 1.248 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.1110					
150.000			.5640	.3620	.4900	.8290			.6410		-.1350	-.1070	-.1200	-.0890	-.0150
157.000								.8830							
162.000									.5640						
165.000											-.2910	-.0900	-.0980	-.0810	-.0120
169.000									.4360						
172.000							1.0290								
180.000	1.2930	.9490	.3480	.2990	.3940	.8640			.8610		-.5310	-.2150	-.2910	-.2350	-.2560

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3260							.0250		-.1420
40.000	-.0930	.3590		-.0020	-.0570	-.2830	-.5320			.0030
70.000		-.0390	.0090	.0870	.2130	.0860	.0110	.0350		
90.000		-.0210	.0520	.1870	.1400	.0800	-.0200	.0590		
105.000				.2560	.1400	.0790	-.0370	.0560		
110.000									-.0890	
120.000		-.0300	.1240	.5710	.1390	-.0180	.0670	.1210	.0190	
135.000				.5820	.3320	-.1180	.2360	.2250		
150.000		-.0420	.1720	.3120	.1840	.2270	.3210	.2240		
165.000		-.0240		.3960	.4320	.3550	.3700	-.0080		
180.000		-.2720	-.0410	.1070						

MACH (4) = 1.249 BETAT (2) = -6.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3490	.6870	.0000	-.0840	-.0840	-.1820			.2360		.1780	.0320	-.0850	-.1950	-.2870
20.000			.3980	-.1650	-.0360	-.1800			.0770		.1740				
40.000			.5560	-.0240	.1380	-.1930			-.0110		.0660	-.0110	-.0470	-.1260	-.1420
55.000			.6250	.0860	.2900	.1140			.1910		.1060				
70.000			.6400	.1160	.3400	.2440			.2520		.0820	-.1820	-.1330	.0160	.0260
90.000		1.1460	.3100	.1330	.3870	.3350			.2660		.0600	-.2540	-.1950	.0120	.0190
120.000			.5850	.2700	.4580	.5410			.3090		.0390	-.2890	-.1250	-.0320	.0110
142.000										-.2870					
150.000			.5400	.3320	.4860	.8170			.6190		-.1740	-.1280	-.1150	-.0870	-.0180
157.000								.8590							
162.000									.5430						
165.000											-.4020	-.1170	-.1210	-.0790	-.0190
169.000									.4480						
172.000							1.0490								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (4) = 1.249 BETAT (2) = -6.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3450	.9670	.3600	.2990	.4210	.8990			.6820		-.4920	-.2350	-.2700	-.1420	-.1160

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3040							.0170		-.1280
40.000	-.1120	.2980		-.0370	-.1220	-.3010	-.3750			-.0110
70.000		-.0650	.0080	.0840	.1760	.0540	-.1220	.0070		
90.000		-.0430	.0390	.1700	.1170	.0530	-.0430	.0370		
105.000				.2220	.0910	.0380	-.0590	.0320		
110.000									-.1100	
120.000		-.0290	.1290	.5250	.0890	-.0630	.3400	.0930	-.0290	
135.000				.6480	.3460	-.1070	.1920	.1730		
150.000		-.0270	.1650	.3430	.2420	.1710	.2680	.1750		
165.000		-.0180		.4140	.4800	.3000	.3120	-.0410		
180.000		-.1420	.0490	.2160						

MACH (4) = 1.245 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3420	.9130	.0000	-.2960	-.0930	-.0810			.2850		.1690	.0230	-.0870	-.2000	-.2770
20.000			.3720	-.1940	-.0600	-.1360			.2410		.1580				
40.000			.4950	-.0750	.1050	-.2020			.0020		.0530	-.0170	-.0730	-.1550	-.1690
55.000			.5440	-.0080	.2870	.0810			.1500		.1240				
70.000			.5550	.0120	.3130	.2100			.2140		.0400	-.2170	-.1790	-.0240	.0090
90.000		1.0820	.5310	.0320	.3540	.2940			.2210		.0010	-.2750	-.2460	-.0510	-.0050
120.000			.5260	.1850	.4210	.4960			.3150		-.0540	-.3250	-.1470	-.0680	-.0070
142.000										-.3500					
150.000			.5090	.2970	.4750	.7960			.5900		-.2140	-.1780	-.1410	-.0950	-.0170
157.000								.8200							
162.000									.5110						
165.000											-.4750	-.1600	-.1490	-.0860	-.0260
169.000									.4530						
172.000							1.0560								
180.000	1.3420	.9700	.3740	.3030	.4460	.9250			.6950		-.4910	-.2020	-.2310	-.1280	-.0780

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1950							.0100		-.1260
40.000	-.1380	.2390		-.0840	-.1730	-.3220	-.2970			-.0440

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBHB03)

MACH (4) = 1.245 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
70.000		-.0840	.0130	.0880	.1570	.0310	-.0370	.0040		
90.000		-.0580	.0620	.1540	.0950	.0310	-.0560	.0130		
105.000				.1690	.0620	.0310	-.0990	.0000		
110.000									-.1310	
120.000		-.0300	.1670	.4520	.0350	-.0980	.0280	.0470	-.0620	
135.000				.7090	.3570	-.0740	.1150	.1080		
150.000		-.0180	.1630	.3730	.3190	.1360	.1870	.1090		
165.000		-.0120		.4310	.5130	.2600	.2390	-.1010		
180.000		-.0450	.1020	.3090						

MACH (4) = 1.246 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3740	.8970	.0000	-.3030	-.0820	.0800			.2710		.1590	.0270	-.0750	-.1840	-.2820
20.000			.3410	-.2160	-.0820	.0300			.2410		.1400				
40.000			.4340	-.1250	.0370	-.1680			.1450		.0690	-.0200	-.0890	-.1700	-.1770
55.000			.4650	-.0650	.1400	.0640			.1370		.0720				
70.000			.4720	-.0650	.3210	.1880			.1170		.0150	-.2320	-.2170	-.0550	-.0060
90.000		1.0190	.4500	-.0520	.3410	.2640			.1650		-.0610	-.3020	-.2780	-.0600	-.0190
120.000			.4560	.0950	.3850	.4560			.2480		-.1230	-.3710	-.1800	-.0680	-.0130
142.000										-.3920					
150.000			.4800	.2510	.4640	.7710			.5580		-.2450	-.2240	-.1810	-.0980	-.0190
157.000								.7790							
162.000									.4730						
165.000											-.5140	-.1900	-.1650	-.0890	-.0310
169.000									.4510						
172.000							1.0550								
180.000	1.3740	.9920	.3850	.3070	.4720	.9400			.6950		-.4790	-.3440	-.1680	-.1040	-.0440

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	-.1230							.0170		-.1420
40.000	-.1680	.1940		-.1300	-.2110	-.3410	-.2970			-.1020
70.000		-.0950	.0810	.0960	.1390	.0090	-.0690	-.0050		
90.000		-.0660	.0790	.1450	.0650	.0030	-.0730	-.0120		
105.000				.1600	.0400	.0040	-.0680	-.0260		
110.000									-.1590	
120.000		-.0540	.1800	.3810	-.0080	-.1520	-.0080	.0010	-.0990	
135.000				.7590	.3640	-.0930	.0190	.0490		
150.000		-.0110	.1600	.4040	.4070	.1000	.0970	.0430		

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

MACH (4) = 1.246 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0110		.4550	.5510	.2130	.1660	-.1540		
180.000		-.0120	.0010	.4160						

MACH (4) = 1.247 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3750	.6960	.0000	-.3160	-.1400	.0960			.2990		.1590	.0230	-.0750	-.1740	-.2610
20.000			.2710	-.2770	-.1410	.1100			.2840		.1320				
40.000			.2960	-.2390	-.1070	-.1000			.2260		.0490	-.0540	-.1320	-.2100	-.2080
55.000			.2950	-.2400	-.0980	.0550			.1600		.0220				
70.000			.2930	-.2410	-.1170	.1590			.0720		-.0550	-.3250	-.2990	-.0970	-.0180
90.000		.8640	.2900	-.2060	.0230	.2020			.0940		-.1440	-.3620	-.3460	-.0910	-.0280
120.000			.3270	-.0790	.2030	.3530			.1190		-.2390	-.4520	-.2360	-.1540	-.0490
142.000										-.4640					
150.000			.4020	.1450	.3680	.6830			.4770		-.3890	-.3060	-.1680	-.1090	-.0380
157.000								.6450							
162.000									.3750						
165.000											-.5640	-.2840	-.1530	-.0880	-.0560
169.000									.4360						
172.000							1.0160								
180.000	1.3750	.9290	.3830	.2960	.4640	.9400			.7010		-.4680	-.3490	-.1560	-.0900	-.0430

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1110							.0190		-.1470
40.000	-.1010	.0550		-.2220	-.2330	-.3670	-.2620			-.2000
70.000		-.1020	.0560	.1080	.1110	-.0960	-.0910	-.0510		
90.000		-.0730	.0980	.1200	.0760	-.0370	-.0990	-.0630		
105.000				.0910	-.0260	-.0520	-.1000	-.0790		
110.000									-.2010	
120.000		-.0590	.1660	.2490	-.1330	-.2270	-.0760	-.0860	-.1540	
135.000				.7960	.3090	-.2050	-.1920	-.1190		
150.000		-.0190	.0210	.3900	.4960	.0510	-.0230	-.0830		
165.000		-.0410		.5160	.5580	.1200	.0500	-.2560		
180.000		-.0160	.0080	.4270						

AMES 11-7D7 IA9 CEA + 83 + T9 ORBITER FUSELAGE (RBMB03)

MACH (4) = 1.247 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3390	.8890	.0000	-.3060	-.1080	-.0510			.2950		.1750	.0390	-.0650	-.1950	-.2830
20.000			.2450	-.2960	-.1500	.0290			.2830		.1370				
40.000			.2310	-.2860	-.1540	.0490			.2130		.0490	-.0500	-.1460	-.2440	-.2390
55.000			.2060	-.3060	-.1840	.0510			.1030		.0080				
70.000			.1920	-.3210	-.2090	.1480			.0560		-.0890	-.3370	-.3140	-.1110	-.0270
90.000		.7770	.1920	-.2750	-.0990	.1750			.0560		-.1950	-.3790	-.3560	-.1080	-.0340
120.000			.2600	-.1370	.1220	.2940			.0520		-.2750	-.4660	-.2700	-.1840	-.0650
142.000										-.5020					
150.000			.3580	.1210	.3140	.6270			.4240		-.4350	-.3250	-.1820	-.1240	-.0390
157.000								.5870							
162.000									.3220						
165.000											-.5620	-.3500	-.1260	-.1370	-.1230
169.000									.4210						
172.000							.9780								
180.000	1.3390	.9710	.3810	.3040	.4450	.9210			.6850		-.4530	-.3140	-.2040	-.1170	-.0740

X/LB	.5875	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0019	1.0392
PHI										
.000	-.0880							.0060	-.1310	
40.000	.0310	.0040		-.2070	-.2120	-.2360	-.2250		-.2240	
70.000		-.1110	.0870	.1020	.1070	-.0530	-.1180	-.0750		
90.000		-.0820	.1050	.1110	.0990	-.0680	-.1200	-.0830		
105.000				.0910	-.0750	-.0850	-.1210	-.0990		
110.000									-.2280	
120.000		-.0810	.1290	.1450	-.1910	-.2710	-.1200	-.1260	-.1700	
135.000				.6710	.3190	-.2500	-.2570	-.2600		
150.000		-.0390	.1060	.2650	.3810	.0650	-.0490	-.1410		
165.000		-.0660		.2770	.4330	.0990	.0020	-.2720		
180.000		-.0470	.1140	.3090						

MACH (4) = 1.248 BETAT (7) = 6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3250	.8810	.0000	-.2910	-.0800	-.1700			.1900		.1930	.0440	-.0780	-.1940	-.2980
20.000			.2190	-.3050	-.1760	-.0890			.2480		.1520				
40.000			.1750	-.3180	-.1910	.0100			.1960		.0570	-.0970	-.1750	-.2790	-.2880
55.000			.1370	-.3510	-.2580	.0900			.0240		.0030				
70.000			.1150	-.3720	-.2630	.1570			.0410		-.1220	-.3610	-.3500	-.1180	-.0380
90.000		.8980	.1140	-.3260	-.1960	.1570			.0260		-.2660	-.4180	-.3760	-.1180	-.0440
120.000			.1930	-.1860	.0450	.2450			-.0070		-.3240	-.4970	-.2980	-.2040	-.0830

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBM803)

MACH (4) = 1.248 BETAT (7) = 6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5350					
150.000			.3100	.0810	.2470	.5640			.3520		-.4820	-.3610	-.1920	-.1550	-.0740
157.000								.4920							
162.000									.2670						
165.000											-.5600	-.3680	-.1580	-.2330	-.1940
169.000									.3930						
172.000							.9250								
180.000	1.3230	.9450	.3600	.2680	.4090	.8830			.6580		-.4580	-.2410	-.2480	-.1430	-.1200

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2660							.0120		-.1360
40.000	-.0890	-.0510		-.2110	-.1780	-.2420	-.2490			-.2490
70.000		-.1220	.0680	.1280	.1480	-.0290	-.0990	-.0760		
90.000		-.0910	.1000	.1450	.1040	-.0470	-.0970	-.0860		
105.000				.1120	-.0480	-.0810	-.1050	-.1040		
110.000									-.2390	
120.000		-.1010	.1140	.1070	-.2060	-.2270	-.1300	-.1450	-.1970	
135.000				.5540	.3580	-.2710	-.3050	-.3130		
150.000		-.1320	.1130	.3180	.3540	.0480	-.0760	-.1630		
165.000		-.1320		.3280	.3580	.0440	-.0410	-.2720		
180.000		-.1050	.0140	.2460						

MACH (4) = 1.251 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3080	.8540	.0000	-.2890	-.0430	-.2370			-.0330		.1660	.0770	-.0510	-.1880	-.3160
20.000			.1860	-.3210	-.1090	-.2440			.1390		.1410				
40.000			.1120	-.3620	-.2720	-.0370			.1130		.0570	-.0920	-.1970	-.3230	-.2970
55.000			.0600	-.4170	-.3260	.0600			.0000		-.0120				
70.000			.0320	-.4320	-.3520	.1420			.0220		-.1580	-.3690	-.3570	-.1280	-.0520
90.000		.6190	.0330	-.3890	-.2940	.1490			-.0050		-.2940	-.4500	-.3700	-.1350	-.0590
120.000			.1260	-.2340	-.0440	.1940			-.0880		-.3570	-.5080	-.3390	-.2360	-.1070
142.000										-.5550					
150.000			.2610	.0540	.1840	.4650			.2710		-.5040	-.3930	-.2250	-.1630	-.1900
157.000								.4270							
162.000									.2340						
165.000											-.5670	-.3760	-.2580	-.3120	-.2660
169.000									.3730						
172.000							.8630								

AMES 11-7D7 IA9 O2A + B3 + T9 ORBITER FUSELAGE (RBWB03)

MACH (4) = 1.251 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0079	.0188	.0339	.0802	.1355	.1906	.1581	.1732	.1958	.2259	.2711	.3200	.3853	.5120
PHI															
180.000	1.3080	.9240	.5490	.2730	.3700	.8990			.6300		-.4590	-.2230	-.2610	-.2200	-.2410
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392					
PHI															
.000	-.3240							.0330		-.1450					
40.000	-.0520	-.0250		-.2230	-.2520	-.2430	-.2350			-.2990					
70.000		-.0180	.1000	.1130	.1310	-.0830	-.1590	-.1390							
90.000		-.0600	.1470	.1460	.0650	-.0920	-.1500	-.1300							
105.000				.1460	-.0780	-.1210	-.1540	-.1460							
110.000									-.2660						
120.000		-.1070	.1840	.1730	-.2170	-.2770	-.1900	-.2030	-.2430						
135.000				.4090	.3000	-.3310	-.3600	-.3790							
150.000		-.2420	.0790	.2720	.2900	.0100	-.1220	-.2060							
165.000		-.1910		.2630	.3110	-.0090	-.0920	-.3080							
180.000		-.2690	-.0270	.1130											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8497 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .598 BETAT (1) = -8.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.9840	.3340	.0000	-.8180	-.2430	-.1830			-.2000		-.2130	-.2020	-.1680	-.1430	-.0900
20.000			-.3180	-.6910	-.2820	-.1830			-.1870		-.2000				
40.000			.0060	-.4070	-.1760	-.2640			-.2710		-.2740	-.2100	-.1280	-.0580	.0270
55.000			.1790	-.1730	.0380	.0450			.0210		-.0540				
70.000			.2480	-.0640	.1140	.1070			.0560		-.0520	-.3000	-.0250	.0540	.0690
90.000		.8560	.2870	.0010	.1550	.1320			.0630		-.0710	-.3410	-.0270	.0380	.0420
120.000			.3080	.1310	.2520	.2530			.1100		-.1480	-.2230	-.0460	.0030	.0250
142.000										-.2500					
150.000			.2460	.1500	.2630	.4680			.0780		-.4580	-.1590	-.0720	-.0300	-.0070
157.000								.4440							
162.000									-.0070						
165.000											-.3470	-.1320	-.0590	-.0190	.0000
169.000									-.1410						
172.000							.8210								
180.000	.9840	.5780	.0050	.0570	.1430	.4780			.1470		-.5740	-.2360	-.2460	-.1610	-.1630

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0250							-.1250		-.0230
40.000	.0660	.0450		-.3180	-.4420	-.2880	-.1690			-.1230
70.000		-.0420	-.0430	-.0100	.0890	.0240	.0150	-.0520		
90.000		-.0020	.0320	.0630	.0720	-.0130	-.0310	-.0870		
105.000				.1280	.0270	-.0310	-.0500	-.1150		
110.000									-.2580	
120.000		.0130	.1660	.2990	-.0960	-.0730	-.0310	-.0680	-.1680	
135.000				.3560	.0690	-.0760	-.0360	-.1160		
150.000		.0130	.1380	.1600	-.0380	-.0250	-.0260	-.1710		
165.000		.0310		.2050	.1870	.0760	-.0130	-.2910		
180.000		-.1860	-.0860	-.0430						

AMES 11-707 IA9 O2A + 33 + T9 ORBITER FUSE 46E (RBM804)

MACH (1) = .597 BETAT (2) = -6.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0300	.3720	.0000	-.7540	-.1850	-.1330			-.1490		-.1630	-.1510	-.1140	-.0880	-.0500
20.000			-.3170	-.6490	-.2280	-.1340			-.1480		-.1590				
40.000			-.0610	-.4140	-.1500	-.2040			-.2130		-.2340	-.1820	-.1020	-.0450	.0280
55.000			.0860	-.2440	.0110	.0200			-.0050		-.0700				
70.000			.1490	-.1430	.0500	.0700			.0170		-.0840	-.3220	-.0440	.0420	.0620
90.000		.7820	.1750	-.0820	.1190	.0880			.0170		-.1060	-.3630	-.0420	.0280	.0330
120.000			.2340	.0710	.2120	.2010			.0370		-.1680	-.2290	-.0480	.0060	.0270
142.000										-.2920					
150.000			.2180	.1360	.2600	.4490			.0400		-.4400	-.1520	-.0630	-.0160	.0090
157.000								.4060							
162.000									-.0430						
165.000											-.3650	-.1310	-.0580	-.0150	.0070
169.000									-.1360						
172.000							.6440								
180.000	1.0300	.6010	.0350	.0900	.1840	.5190			.1800		-.5270	-.1970	-.1940	-.0930	-.0650

X/LB	.5875	.6526	.7380	.7869	.8283	.8848	.9282	.9839	1.0015	1.0092
PHI										
.000	.0000							-.1040		-.0220
40.000	.0350	.0120		-.3100	-.4040	-.2650	-.1540			-.1350
70.000		-.0420	-.0570	-.0320	.0800	.0070	.0030	-.0610		
90.000		-.0050	.0180	.0280	.0370	-.0320	-.0470	-.0900		
105.000				.0800	-.0170	-.0290	-.0680	-.1180		
110.000									-.2490	
120.000		.0220	.1600	.2260	-.1670	-.1010	-.0190	-.0860	-.1700	
135.000				.4090	.0670	-.0980	-.0500	-.1200		
150.000		.0350	.1540	.2150	.0060	-.0480	-.0590	-.1790		
165.000		.0360		.2220	.2000	.0300	-.0520	-.2840		
180.000		-.0480	.0090	.0540						

MACH (1) = .999 BETAT (3) = -4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0400	.3950	.0000	-.7350	-.1600	-.0980			-.1160		-.1300	-.1170	-.0880	-.0530	-.0180
20.000			-.3450	-.6320	-.1870	-.1120			-.1140		-.1360				
40.000			-.1320	-.4540	-.1450	-.1690			-.1720		-.2070	-.1650	-.0540	-.0230	.0200
55.000			-.0140	-.3180	-.0240	-.0100			-.0340		-.0940				
70.000			.0330	-.2250	.0010	.0270			-.0220		-.1190	-.3540	-.0580	.0320	.0500
90.000		.7100	.0670	-.1740	.0640	.0380			-.0310		-.1440	-.3850	-.0620	.0110	.0280
120.000			.1570	.0100	.1670	.1470			-.0460		-.1670	-.2390	-.0590	.0000	.0240

AMES 11-707 IA9 02A + 33 + T9 ORBITER FUSELAGE (RBMB04)

MACH (1) = .999 BETAT (3) = -4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1939	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.3320					
150.000			.1890	.1170	.2450	.4160			-.0140		-.4150	-.1510	-.0600	-.0180	.0110
157.000								.3600							
162.000									-.0880						
165.000											-.3780	-.1340	-.0540	-.0140	.0040
169.000									-.1370						
172.000							.6580								
180.000	1.0400	.6900	.0800	.1060	.2190	.5520			.2090		-.5070	-.1650	-.1590	-.0560	-.0200

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9202	.9639	1.0015	1.0392
PHI										
.000	.0210							-.0870		.0270
40.000	.0340	-.0200		-.3090	-.3690	-.2310	-.1340			-.1380
70.000		-.0460	-.0740	-.0990	.0310	-.0170	-.0130	-.0860		
90.000		-.0170	-.0390	-.0060	-.0020	-.0490	-.0580	-.0980		
105.000				.0230	-.0660	-.0790	-.0840	-.1230		
110.000									-.2540	
120.000		.0190	.1480	.1470	-.2500	-.1380	-.0770	-.0970	-.1780	
135.000				.4390	.0490	-.1290	-.0780	-.1400		
150.000		.0370	.1620	.2590	.0360	-.0860	-.0910	-.1900		
165.000		.0400		.2340	.2090	-.0240	-.1000	-.2820		
180.000		.0020	.0920	.1320						

MACH (1) = .999 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0630	.4170	.0000	-.7240	-.1450	-.0830			-.0930		-.1130	-.1000	-.0690	-.0340	.0030
20.000			-.3770	-.6360	-.1540	-.0930			-.0990		-.1170				
40.000			-.2050	-.4900	-.1390	-.1330			-.1460		-.1910	-.1490	-.0760	-.0320	.0110
55.000			-.1190	-.3840	-.0550	-.0380			-.0700		-.1210				
70.000			-.0780	-.3210	-.0450	-.0130			-.0640		-.1550	-.3730	-.0750	.0200	.0440
90.000		.4200	-.0490	-.2580	.0030	-.0130			-.0850		-.1730	-.4010	-.0770	.0010	.0260
120.000			.0700	-.0660	.1060	.0820			-.1360		-.2140	-.2540	-.0700	-.0100	.0190
142.000										-.3820					
150.000			.1440	.0820	.2170	.3750			-.0660		-.4100	-.1590	-.0640	-.0150	.0120
157.000								.2960							
162.000									-.1450						
165.000											-.4000	-.1380	-.0630	-.0190	.0090
169.000									-.1540						
172.000							.6560								

AMES 11-707 IA9 O2A - 93 - 78 ORBITER FUSELAGE (RBM#24)

MACH (1) = .599 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0630	.6410	.0690	.1190	.2260	.5670			.2190		-.5040	-.1400	-.1270	-.0340	-.0020
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0270							-.0840		.0620					
40.000	.0200	-.1690		-.3010	-.3370	-.2120	-.1200			-.1460					
70.000		-.0480	-.0860	-.0830	-.0020	-.0400	-.0290	-.0770							
90.000		-.0170	-.0240	-.0500	-.0370	-.0810	-.0830	-.1070							
103.000				-.0340	-.1060	-.1110	-.1000	-.1390							
110.000									-.2600						
125.000		.0180	.1370	.0550	-.3430	-.1650	-.1000	-.1220	-.1900						
135.000				.4530	.0180	-.1670	-.1210	-.1580							
150.000		.0430	.1650	.2940	.0610	-.1250	-.1290	-.2120							
165.000		.0880		.2500	.2090	-.0730	-.1470	-.2710							
180.000		.0301	.1070	.1540											

MACH (1) = .600 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0730	.3980	.0000	-.7150	-.1410	-.0830			-.0890		-.1070	-.0920	-.0580	-.0200	.0050
20.000			-.4150	-.6530	-.1440	-.0910			-.0960		-.1170				
40.000			-.3000	-.5350	-.1460	-.1160			-.1260		-.1810	-.1490	-.0740	-.0330	.0040
55.000			-.2430	-.4680	-.0930	-.0710			-.0970		-.1480				
70.000			-.2100	-.4090	-.0920	-.0520			-.1040		-.1850	-.3990	-.0910	.0050	.0330
90.000		.5240	-.1600	-.3560	-.0530	-.0650			-.1340		-.2060	-.4200	-.0910	-.0170	.0130
120.000			-.0280	-.1420	.0380	.0120			-.2400		-.2430	-.2730	-.0850	-.02 0	.0140
142.000										-.4380					
150.000			.0950	.0460	.1750	.3190			-.1400		-.4040	-.1670	-.0750	-.028	.0080
157.000								.2130							
162.000									-.2240						
165.000											-.4100	-.1380	-.0680	-.0200	-.0010
169.000									-.1830						
172.000							.6400								
180.000	1.0730	.6510	.0760	.1260	.2350	.5760			.2300		-.4930	-.1340	-.1070	-.0300	.0070
X/LB	.5873	.6626	.7380	.7869	.8283	.8048	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0320							-.0850		.0910					
40.000	-.0020	-.1160		-.3000	-.3180	-.1970	-.1060			-.1520					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (R3MEDA)

MACH (1) = .600 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0580	-.1010	-.1100	-.0280	-.0610	-.0510	-.0820		
90.000		-.0270	-.0360	-.0830	-.0760	-.1020	-.0970	-.1180		
105.000				-.0950	-.1530	-.1330	-.1200	-.1500		
110.000									-.2630	
120.000		.0070	.1120	-.0560	-.4380	-.2120	-.1280	-.1400	-.2000	
135.000				.4430	-.0340	-.2440	-.1630	-.1850		
150.000		.0330	.1590	.3400	.0850	-.1770	-.1770	-.2350		
165.000		.0360		.2580	.2130	-.1390	-.1900	-.2830		
180.000		.0380	.1210	.1620						

MACH (1) = .599 BETAT (6) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0730	.3880	.0000	-.7320	-.1430	-.0850			-.0960		-.1130	-.0980	-.0890	-.0900	.0010
20.000			.4570	-.6680	-.1450	-.0920			-.1040		-.1300				
40.000			-.3980	-.5750	-.1550	-.1070			-.1230		-.1610	-.1430	-.0780	-.0390	-.0040
55.000			-.3600	-.5480	-.1230	-.0930			-.1220		-.1720				
70.000			-.3400	-.4950	-.1370	-.0900			-.1410		-.2130	-.4050	-.0990	.0010	.0280
90.000		.4220	-.3080	-.4440	-.1130	-.1140			-.1850		-.2430	-.4290	-.1040	-.0170	.0090
120.000			-.1320	-.2270	-.0320	-.0610			-.3330		-.2690	-.2890	-.1060	-.0410	-.0020
142.000										-.5190					
150.000			.0390	-.0060	.1250	.2550			-.2000		-.4040	-.1810	-.0930	-.0350	-.0030
157.000								.1190							
162.000									-.3090						
165.000											-.4110	-.1430	-.0740	-.0300	-.0220
169.000									-.2160						
172.000							.6080								
180.000	1.0730	.6490	.0770	.1230	.2310	.5640			.2110		-.5030	-.1370	-.1090	-.0340	-.0020

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0250							-.0820		.0650
40.000	-.0190	-.1450		-.2790	-.2780	-.1660	-.1270			-.1850
70.000		-.0610	-.1170	-.1370	-.0560	-.0850	-.0670	-.0990		
90.000		-.0310	-.0560	-.1200	-.1070	-.1290	-.1130	-.1290		
105.000				-.1460	-.1970	-.1610	-.1390	-.1610		
110.000									-.2550	
120.000		-.0570	.0830	-.1580	-.5420	-.2570	-.1570	-.1610	-.2110	
135.000				.4280	-.1040	-.3230	-.2210	-.2280		
150.000		.0230	.1460	.3690	.0930	-.2230	-.2210	-.2510		

AMES 11-707 IA9 02A + 33 + 79 ORBITER FUSELAGE (FEMBC4)

MACH (1) = .599 BETAT (6) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6625	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
185.000		.0110		.2550	.2100	-.2160	-.2480	-.2610		
180.000		.0290	.1100	.1540						

MACH (1) = .599 BETAT (7) = 4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1961	.1732	.1958	.2239	.2713	.3290	.4953	.5129
PHI															
.000	1.0480	.3760	.0000	-.7460	-.1640	-.1030			-.1140		-.1330	-.1220	-.0830	-.0480	-.0190
20.000			-.5240	-.7040	-.1620	-.1080			-.1170		-.1460				
40.000			-.5030	-.6350	-.1640	-.1160			-.1300		-.1640	-.1530	-.0860	-.0500	-.0140
55.000			-.4740	-.6320	-.1550	-.1150			-.1470		-.1930				
70.000			-.4710	-.5730	-.1750	-.1220			-.1680		-.2290	-.1450	-.1040	-.0640	.0240
90.000		.3100	-.4370	-.5360	-.1620	-.1640			-.2290		-.2670	-.1950	-.1051	-.0220	.0060
120.000			-.2310	-.3150	-.1050	-.1420			-.4320		-.2900	-.2100	-.1230	-.0560	-.0180
142.000										-.6820					
150.000			-.0230	-.0630	.0740	.1830			-.2730		-.4110	-.1960	-.1070	-.0830	-.0040
157.000								.0220							
162.000									-.4010						
165.000											-.4380	-.1910	-.0630	-.0610	-.0370
169.000									-.2530						
172.000							.5650								
180.000	1.0480	.6420	.0710	.1060	.2150	.5440			.1930		-.4860	-.1570	-.1290	-.0870	-.0280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0180							-.0950		.0360
40.000	-.0210	-.1490		-.2120	-.1990	-.1660	-.1380			-.2630
70.000		-.0670	-.1410	-.1670	-.0880	-.1130	-.1020	-.1300		
90.000		-.0360	-.0770	-.1530	-.1370	-.1560	-.1460	-.1460		
105.000				-.2040	-.2470	-.1970	-.1680	-.1810		
110.000									-.2390	
120.000		-.0210	.0520	-.2500	-.6460	-.2990	-.1940	-.1910	-.2300	
135.000				.4010	-.1720	-.4090	-.2900	-.2650		
150.000		.0140	.1250	.3150	.1260	-.2810	-.2620	-.2750		
165.000		-.0240		.2330	.1790	-.3010	-.2980	-.2730		
180.000		.0030	.0840	.1300						

AMES 11-7ft IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (1) = .600 BETAT (8) = 6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0120	.3520	.0000	-.7670	-.1940	-.1410			-.1480		-.1720	-.1520	-.1220	-.0760	-.0570
20.000			-.5740	-.7440	-.1930	-.1400			-.1480		-.1810				
40.000			-.6000	-.6990	-.2010	-.1350			-.1510		-.2140	-.1730	-.1060	-.0670	-.0230
55.000			-.6080	-.7230	-.1930	-.1450			-.1670		-.2070				
70.000			-.6030	-.6650	-.2110	-.1530			-.1980		-.2520	-.4190	-.1130	-.0170	.0190
90.000		.1930	-.5710	-.6280	-.2140	-.2030			-.2680		-.2940	-.4340	-.1190	-.0290	.0000
120.000			-.3520	-.4070	-.1800	-.2290			-.5320		-.3150	-.3290	-.1490	-.0760	-.0300
142.000										-.8490					
150.000			-.1090	-.1370	-.0010	.0890			-.3490		-.4240	-.2200	-.1290	-.0680	-.0120
157.000								-.1110							
162.000									-.5220						
163.000											-.4920	-.1690	-.1240	-.1260	-.1110
165.000									-.3030						
172.000							.4970								
180.000	1.0120	.6080	.0370	.0720	.1770	.4980			.1530		-.5460	-.1690	-.1600	-.0950	-.0660

X/LB	.5873	.6626	.7380	.7869	.8203	.8549	.9282	.9639	1.0015	1.0392
PHI										
.000	-.0030							-.1080		.0050
40.000	-.0310	-.1520		-.1950	-.2010	-.1890	-.1690			-.3050
70.000		-.0760	-.1600	-.1980	-.1100	-.1440	-.1280	-.1560		
90.000		-.0480	-.0990	-.1880	-.1620	-.1860	-.1610	-.1710		
105.000				-.2520	-.2900	-.2240	-.1890	-.2030		
110.000									-.2800	
120.000		-.0450	.0220	-.3360	-.7390	-.3420	-.2340	-.2180	-.2490	
135.000				.3900	-.2420	-.5140	-.3600	-.3120		
150.000		-.0330	.0620	.2380	.0990	-.3320	-.3070	-.2940		
165.000		-.0720		.1930	.1370	-.3790	-.3550	-.2870		
180.000		-.0370	.0400	.0790						

MACH (1) = .601 BETAT (9) = 6.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.9770	.3160	.0000	-.8020	-.2400	-.1680			-.1950		-.2160	-.1940	-.1670	-.1060	-.0940
20.000			-.6530	-.8050	-.2400	-.1900			-.1940		-.2200				
40.000			-.7230	-.7970	-.2330	-.1720			-.1910		-.2420	-.1990	-.1290	-.0830	-.0280
55.000			-.7470	-.8260	-.2290	-.1710			-.1940		-.2260				
70.000			-.7590	-.7590	-.2500	-.1840			-.2260		-.2680	-.4280	-.1260	-.0230	.0160
90.000		.0670	-.7180	-.7370	-.2710	-.2520			-.3080		-.3180	-.4370	-.1240	-.0340	-.0010
120.000			-.4730	-.5100	-.2690	-.3110			-.6420		-.3410	-.3520	-.1660	-.0950	-.0430

- AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (1) = .601 BETAT (9) = 8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.0340					
150.000			-.1880	-.2070	-.0770	-.0080			-.4370		-.4460	-.2510	-.1580	-.0690	-.0680
157.000								-.2410							
162.000									-.6360						
165.000											-.5560	-.2050	-.2110	-.2000	-.1790
169.000									-.3620						
172.000							.4200								
180.000	.9770	.5840	.0110	.0400	.1390	.4460			.1000		-.6230	-.2360	-.2060	-.1600	-.1900

X/LB	.5373	.6626	.7580	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	-.0120							-.1210		-.0900
40.000	-.0170	-.1210		-.2670	-.2910	-.2360	-.2480			-.2810
70.000		-.0910	-.1800	-.2360	-.1380	-.1910	-.1670	-.1920		
90.000		-.0660	-.1240	-.2210	-.1990	-.2210	-.1970	-.2040		
105.000				-.2870	-.3200	-.2690	-.2230	-.2260		
110.000									-.2890	
120.000		-.0620	-.0080	-.3650	-.6170	-.3840	-.2690	-.2490	-.2710	
135.000				.2540	-.3100	-.6070	-.4380	-.3600		
150.000		-.1140	-.0330	.1340	.0210	-.4100	-.3630	-.3120		
165.000		-.1270		.1380	.0640	-.4750	-.4170	-.2970		
180.000		-.1160	-.0720	-.0520						

MACH (2) = .899 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1490	.5980	.0000	-.9150	-.3580	-.1630			-.2180		-.3040	-.4010	-.2540	-.1040	-.0170
20.000			-.0090	-.7120	-.4020	-.1710			-.1900		-.2890				
40.000			.2130	-.4370	-.2050	-.2750			-.2870		-.3650	-.4290	-.1600	-.0330	.0940
55.000			.3240	-.2000	.0390	.0540			.0210		-.0710				
70.000			.3720	-.0980	.1040	.1350			.0620		-.0710	-.6540	.0080	.0870	.1170
90.000		.9710	.3660	-.0320	.1930	.1780			.0780		-.0790	-.7660	-.0010	.0710	.0850
120.000			.3610	.1080	.2890	.3530			.1560		-.1400	-.7990	-.0040	.0460	.0870
142.000										-.4420					
150.000			.2890	.1430	.2920	.5780			.2870		-.5250	-.5480	-.0400	.0150	.0390
157.000								.5950							
162.000									.1940						
165.000											-.3070	-.4640	-.0200	.0320	.0510
169.000									.0380						
172.000							.7770								

AMES 11-7X7 IA9 O2A + 33 + 79 ORBITER FUSELAGE (RBNB04)

MACH (2) = .899 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1490	.6860	.0430	.0660	.1760	.6210			.3320		-1.0380	-.6770	-.1890	-.1730	-.1540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0960							-.1210		-.1020
40.000	.1760	.2190		-.1500	-.2920	-.2930	-.2080			-.1640
70.000		.0030	-.0320	.0070	.1020	.0510	.0740	.0230		
90.000		.0350	.0570	.0920	.0650	.0090	.0350	.0140		
105.000				.1680	.0080	-.0090	.0170	-.0150		
110.000									-.2680	
120.000		.0470	.2000	.3680	-.1130	-.0530	.0570	.0020	-.1690	
135.000				.4420	.1230	-.0280	.0490	-.0220		
150.000		.0480	.2040	.2540	.0330	.0590	.0720	-.0910		
165.000		.0700		.2890	.2450	.1480	.0980	-.3160		
180.000		-.1300	.0170	.0920						

MACH (2) = .897 BETAT (2) = -8.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1810	.6210	.0000	-.9510	-.3320	-.1240			-.1740		-.2690	-.3850	-.1250	-.0540	.0190
20.000			-.0340	-.7610	-.3940	-.1350			-.1630		-.2370				
40.000			.1450	-.5470	-.2440	-.2130			-.2450		-.3330	-.4090	-.1110	-.0150	.0890
55.000			.2320	-.3440	-.0240	.0260			-.0240		-.1120				
70.000			.2610	-.2340	.0360	.0890			.0070		-.1130	-.6840	-.0180	.0790	.1070
90.000		.9040	.2560	-.1550	.1200	.1260			.0120		-.1240	-.7890	-.0280	.0840	.0760
120.000			.2750	.0220	.2300	.2840			.0700		-.1690	-.8140	.0000	.0480	.0720
142.000										-.6500					
150.000			.2450	.1120	.2801	.5600			.2580		-.5030	-.5430	-.0130	.0260	.0480
157.000								.5630							
162.000									.1680						
165.000											-.6420	-.4960	-.0150	.0330	.0480
169.000									.0490						
172.000							.7960								
180.000	1.1810	.7050	.0460	.0730	.2070	.6510			.3520		-1.1320	-.6610	-.0890	-.0520	-.0260

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1070							-.1110		-.0890
40.000	.1570	.1760		-.1810	-.3120	-.2670	-.1760			-.1570

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (2) = .897 BETAT (2) = -6.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0040	-.0450	-.0580	.0480	.0080	.0480	.0080		
90.000		.0330	.0460	.0450	.0060	-.0930	.0050	-.0070		
105.000				.1120	-.0640	-.0570	-.0100	-.0360		
110.000									-.2680	
120.000		.0530	.1970	.2780	-.2210	-.1000	.0000	-.0250	-.1780	
135.000				.4870	.1130	-.0690	.0100	-.0510		
150.000		.0820	.2110	.2950	.0660	.0050	.0280	-.1200		
165.000		.0700		.3060	.2620	.0900	.0490	-.3200		
180.000		-.0320	.0630	.1570						

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1306	.1581	.1752	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.2050	.6300	.0000	-.9410	-.3800	-.0980			-.1490		-.2570	-.3410	-.0860	-.0180	.0490
20.000			-.0620	-.7970	-.3660	-.1090			-.1450		-.2550				
40.000			.0610	-.6480	-.2860	-.1750			-.2160		-.3150	-.3930	-.0850	-.0040	.0810
55.000			.1470	-.5230	-.0790	-.0070			-.0720		-.1520				
70.000			.1640	-.3930	-.0220	.0480			-.0520		-.1630	-.7070	-.0700	.0700	.0940
90.000		.8360	.1570	-.2860	.0580	.0770			-.0550		-.1530	-.6060	-.0770	.0360	.0630
120.000			.1950	-.0540	.1750	.2300			-.0140		-.1710	-.8150	.0060	.0440	.0650
142.000										-.8670					
150.000			.2030	.0780	.2620	.5370			.2280		-.5380	-.5300	-.0090	.0310	.0340
157.000								.9290							
162.000									.1350						
165.000											-.8220	-.4680	-.0070	.0360	.0410
169.000									.0580						
172.000							.8090								
180.000	1.2090	.7250	.0580	.0790	.2350	.6810			.3730		-1.1280	-.5860	-.0590	-.0130	.0193

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1160							-.1090		-.0390
40.000	.1380	.1290		-.1990	-.3200	-.2420	-.1690			-.1690
70.000		.0020	-.0520	-.0780	-.0080	-.0370	.0220	-.0080		
90.000		.0300	.0330	.0030	-.0580	-.0780	-.0180	-.0200		
105.000				.0540	-.1430	-.1070	-.0380	-.0500		
110.000									-.2770	
120.000		.0550	.1910	.2160	-.3420	-.1600	-.0390	-.0530	-.1900	
135.000				.5180	.0880	-.1340	-.0450	-.0860		
150.000		.0680	.2140	.3300	.0950	-.0560	-.0250	-.1560		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0700		.3160	.2670	.0160	-.0100	-.3250		
180.000		.0420	.1460	.2260						

MACH (2) = .900 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2100	.6280	.0000	-.9470	-.5150	-.0850			-.1380		-.2480	-.2880	-.0730	.0090	.0710
20.000			-.0850	-.8260	-.3890	-.0950			-.1370		-.2510				
40.000			.0210	-.7080	-.2960	-.1420			-.1940		-.2910	-.3740	-.0610	.0030	.0770
55.000			.0650	-.6430	-.1210	-.0360			-.1120		-.2100				
70.000			.0700	-.5820	-.0760	.0070			-.1000		-.2600	-.7250	-.0710	.0620	.0890
90.000		.7630	.0600	-.4450	.0000	.0270			-.1100		-.2690	-.8140	-.0870	.0490	.0640
120.000			.1150	-.1450	.1170	.1760			-.1010		-.3130	-.8060	-.0010	.0370	.0620
142.000										-1.0270					
150.000			.1620	.0410	.2300	.5000			.1920		-.6860	-.4950	-.0170	.0300	.0530
157.000								.4680							
162.000									.0900						
165.000											-.9190	-.4480	.0100	.0370	.0450
169.000									.0570						
172.000							.8060								
180.000	1.2100	.7320	.0590	.0920	.2470	.6950			.3810		-1.1200	-.3870	-.0580	.0100	.0370

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1190							-.0750		.0170
40.000	.1200	.0750		-.2290	-.3330	-.2290	-.1590			-.1690
70.000		.0030	-.0540	-.1070	-.0710	-.0780	-.0070	-.0230		
90.000		.0310	.0240	-.0400	-.1340	-.1240	-.0470	-.0360		
105.000				-.0030	-.2290	-.1650	-.0660	-.0690		
110.000									-.2820	
120.000		.0570	.1870	.1340	-.4280	-.2230	-.0750	-.0850	-.2000	
135.000				.5340	.0660	-.2240	-.1040	-.1280		
150.000		.0730	.2200	.3620	.1300	-.1350	-.0800	-.1940		
165.000		.0720		.3260	.2640	-.0580	-.0690	-.3170		
180.000		.0630	.1680	.2350						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBHB04)

MACH (2) = .902 BETAT (5) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2110	.6270	.0000	-.9500	-.5310	-.0850			-.1310		-.2540	-.3330	-.0660	.0090	.0690
20.000			-.1460	-.8850	-.6650	-.0890			-.1380		-.2880				
40.000			-.1070	-.8130	-.3670	-.1050			-.1680		-.3620	-.4140	-.0480	.0040	.0630
55.000			-.1020	-.8130	-.1440	-.0810			-.1700		-.3770				
70.000			-.1180	-.8070	-.1140	-.0600			-.1770		-.4630	-.7980	-.1270	.0530	.0810
90.000		.6030	-.1310	-.7270	-.1100	-.0720			-.2170		-.4840	-.8620	-.1240	.0480	.0530
120.000			-.0450	-.3630	-.0240	.0990			-.2780		-.5690	-.7680	-.0650	.0130	.0420
142.000										-1.1380					
150.000			.0660	-.0680	.1460	.3960			.0990		-.6080	-.5160	-.0690	.0360	.0480
157.000								.3190							
162.000									-.0300						
165.000											-.8810	-.5680	-.0340	.0350	.0180
169.000									.0370						
172.000							.7830								
180.000	1.2110	.7370	.0670	.0860	.2460	.6930			.3790		-1.1060	-.3930	-.0610	.0160	.0360

X/LB	.5975	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1210							-.0720		-.0350
40.000	.0940	-.0480		-.2300	-.2800	-.2110	-.1780			-.2270
70.000		.0080	-.0820	-.1610	-.1510	-.3130	-.0770	-.3790		
90.000		.0320	.0140	-.1110	-.2290	-.3860	-.1220	-.0930		
105.000				-.1000	-.3470	-.4210	-.1420	-.1220		
110.000									-.3040	
120.000		.0470	.1560	-.0550	-.5710	-.4830	-.1720	-.1590	-.2450	
135.000				.5290	-.0030	-.6080	-.3040	-.2570		
150.000		.0710	.2030	.4040	.1800	-.3400	-.2450	-.3100		
165.000		.0510		.3270	.2730	-.2670	-.2570	-.3320		
180.000		.0630	.1700	.2370						

MACH (2) = .903 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1980	.6120	.0000	-.9320	-.3840	-.0990			-.1440		-.2580	-.3390	-.0990	-.0130	.0490
20.000			-.1840	-.9100	-.6900	-.1050			-.1470		-.3010				
40.000			-.1780	-.8700	-.6330	-.1040			-.1680		-.3750	-.4370	-.0570	-.0040	.0510
55.000			-.1950	-.8870	-.1600	-.1040			-.1910		-.4100				
70.000			-.2130	-.8930	-.1450	-.0940			-.2130		-.5190	-.8300	-.1650	.0540	.0830
90.000		.5180	-.2190	-.8170	-.1580	-.1190			-.2670		-.5580	-.8010	-.1740	.0430	.0500
120.000			-.1210	-.4560	-.1200	-.0400			-.3660		-.6670	-.7490	-.1030	.0020	.0330

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AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (2) = .903 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1870					
150.000			.0210	-.1230	.0840	.3290			.0430		-.9380	-.5690	-.0820	.0340	.0390
157.000								.2290							
162.000									-.0980						
165.000											-.9200	-.5990	-.0710	-.0120	-.0170
169.000									.0120						
172.000							.7210								
180.000	1.1960	.7300	.0670	.0720	.2290	.6710			.3610		-1.0970	-.4600	-.0810	-.0110	.0130

X/LB	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9699	1.0015	1.0392
PHI										
.000	.1160							-.1060		-.0370
40.000	.0700	-.1040		-.2120	-.2320	-.1990	-.1710			-.2820
70.000		.0150	-.0640	-.1750	-.1600	-.4170	-.1650	-.1120		
90.000		.0330	.0040	-.1330	-.2660	-.4600	-.2120	-.1130		
105.000				-.1350	-.4210	-.4600	-.2590	-.1500		
110.000									-.3100	
120.000		.0430	.1400	-.1130	-.6350	-.5290	-.4440	-.1660	-.2690	
135.000				.5130	-.0370	-.6960	-.4840	-.4410		
150.000		.0500	.1790	.3450	.2030	-.3610	-.4280	-.3790		
165.000		.0220		.2990	.2560	-.3160	-.3630	-.3270		
180.000		.0400	.1480	.2200						

MACH (2) = .900 BETAT (7) = 6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1750	.5990	.0000	-.9450	-.3180	-.1380			-.1810		-.2780	-.3660	-.1410	-.0400	.0080
20.000			-.2210	-.9340	-.4060	-.1390			-.1840		-.3200				
40.000			-.2440	-.9220	-.6870	-.1250			-.1890		-.3970	-.4970	-.0710	-.0180	.0420
55.000			-.2830	-.9600	-.3750	-.1290			-.2120		-.4340				
70.000			-.3140	-.9690	-.2940	-.1290			-.2410		-.5550	-.8360	-.1360	.0470	.0860
90.000		.4280	-.3140	-.9000	-.2090	-.1670			-.3090		-.6350	-.4600	-.1660	.0350	.0530
120.000			-.2080	-.5580	-.2400	-.1180			-.4540		-.7710	-.5350	-.1390	-.0200	.0260
142.000										-1.2410					
150.000			-.0400	-.1930	.0100	.2470			-.0310		-1.1020	-.5170	-.0180	.0000	-.0030
157.000								.1300							
162.000									-.1770						
165.000											-1.2400	-.5360	-.0380	-.0890	-.077
169.000									-.0220						
172.000							.6620								

AMFS 11-707 IA9 CBA + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (2) = .900 BETAT (7) = 6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1750	.7090	.0510	.0540	.1970	.6310			.3320		-1.0790	-.6820	-.0420	-.0390	-.0400

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1040							-.1140		-.0970
40.000	.0880	-.1270		-.2330	-.2420	-.2590	-.2160			-.3120
70.000		.0140	-.0880	-.1970	-.2020	-.4830	-.2630	-.1560		
90.000		.0290	.0010	-.1560	-.3040	-.4930	-.3840	-.1560		
105.000				-.1670	-.4780	-.4880	-.4680	-.1980		
110.000									-.3170	
120.000		.0260	.1390	-.1540	-.6970	-.5910	-.5170	-.2690	-.2770	
135.000				.5060	-.0630	-.7980	-.7660	-.5670		
150.000		-.0380	.1290	.2700	.1800	-.3870	-.4970	-.5300		
165.000		-.0150		.2770	.2240	-.3650	-.4170	-.3520		
180.000		-.0110	.1020	.1360						

MACH (2) = .898 BETAT (8) = 8.240

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1430	.5740	.0000	-.9350	-.3470	-.1680			-.2120		-.3070	-.4110	-.2980	-.0720	-.0300
20.000			-.2620	-.9540	-.3840	-.1700			-.2170		-.3530				
40.000			-.3200	-.9730	-.6630	-.1490			-.2060		-.4250	-.5250	-.0920	-.0280	.0420
55.000			-.3760	-1.0520	-.4490	-.1530			-.2330		-.4620				
70.000			-.4210	-1.0490	-.3870	-.1560			-.2720		-.5990	-.5500	-.1710	.0560	.0920
90.000		.3320	-.4090	-.9730	-.4450	-.2140			-.3510		-.6800	-.3810	-.2130	.0420	.0600
120.000			-.2810	-.6390	-.3500	-.2060			-.5360		-.8420	-.4620	-.1760	-.0260	.0160
142.000										-1.2810					
150.000			-.0930	-.2470	-.0680	.1610			-.1070		-1.1630	-.5760	-.0340	-.0010	-.0610
157.000								.0340							
162.000									-.2340						
165.000											-1.2630	-.6210	-.1220	-.1350	-.1170
169.000									-.0520						
172.000							.5850								
180.000	1.1430	.6030	.0430	.0390	.1670	.5060			.2950		-.9570	-.7190	-.1740	-.1620	-.1370

X/LB	.5873	.6626	.7380	.7869	.8283	.8849	.9262	.9639	1.0015	1.0392
PHI										
.000	.0940							-.1240		-.1080
40.000	.0780	-.0360		-.2570	-.2720	-.2550	-.2650			-.3170

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (2) = .898 BETAT (8) = 8.240

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0170	-.0700	-.2030	-.2190	-.5020	-.4080	-.2010		
90.000		.0280	-.0070	-.1620	-.3210	-.5120	-.5280	-.1970		
105.000				-.1670	-.4950	-.5340	-.5550	-.2440		
110.000									-.3070	
120.000		.0240	.1190	-.1310	-.7180	-.6470	-.5760	-.4290	-.3020	
135.000				.3990	-.0890	-.8650	-.8780	-.6620		
150.000		-.0840	.1000	.2560	.1400	-.4260	-.5700	-.5820		
165.000		-.0390		.2340	.1670	-.4290	-.4770	-.3490		
180.000		-.1000	-.0230	.0740						

MACH (3) = 1.100 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2590	.7780	.0000	-.4920	-.1690	-.0720			.1010		-.0610	-.1540	-.2470	-.3640	-.4000
20.000			.2670	-.3420	-.1870	-.1030			.1240		-.0370				
40.000			.4630	-.1450	-.0060	-.1200			-.1650		-.1130	-.1710	-.1820	-.2000	-.1200
55.000			.5590	.0290	.1920	.2220			.1840		.1260				
70.000			.5860	.0940	.2640	.3050			.2380		.1240	-.3210	-.2350	-.0490	-.0270
90.000		1.1180	.5670	.1310	.3260	.3560			.2650		.1120	-.3990	-.3230	-.0560	-.0600
120.000			.5290	.2480	.4160	.5050			.3640		.0930	-.4270	-.2380	-.0960	-.0620
142.000										-.2440					
150.000			.4520	.2810	.4320	.7410			.5080		-.2690	-.2450	-.2380	-.1760	-.0820
157.000								.7750							
162.000									.4240						
165.000											-.4120	-.2050	-.2290	-.1690	-.0780
169.000									.2810						
172.000							.9380								
180.000	1.2590	.8560	.2290	.2140	.3300	.7800			.5420		-.7440	-.3570	-.4590	-.3580	-.3390

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1410							-.0130		-.1290
40.000	.2310	.3750		-.0690	-.0580	-.4580	-.3200			-.1590
70.000		.0550	-.0830	.1190	.2020	.0050	-.0910	.0930		
90.000		.0710	.0160	.2130	.1570	-.0090	-.0960	.0800		
105.000				.2770	.1230	-.0320	-.0740	.0090		
110.000									-.1640	
120.000		.0400	.2350	.5430	.0500	-.1120	.0170	.0130	-.0200	
135.000				.5520	.2580	.0100	.1300	.0920		
150.000		.0120	.2790	.3340	.1390	.1680	.2100	.0860		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB04)

MACH (3) = 1.100 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0470		.3980	.3710	.2630	.2540	-.1520		
180.000		-.2150	.1260	.2180						

MACH (3) = 1.099 BETAT (2) = -6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2820	.7860	.0000	-.4980	-.2310	.1950			.0930		-.0420	-.1240	-.2220	-.3600	-.2500
20.000			.2480	-.3650	-.1570	.1570			.0980		-.0360				
40.000			.4070	-.2180	-.0090	.0260			-.0020		-.1110	-.1650	-.1810	-.2430	-.1900
55.000			.4770	-.0910	.1500	.2000			.1620		.0550				
70.000			.4960	-.0410	.1930	.2700			.2140		.0390	-.3440	-.2810	-.0770	-.0350
90.000		1.0540	.4750	.0110	.2740	.3090			.2240		.0050	-.4190	-.3590	-.0840	-.0520
120.000			.4620	.1740	.3740	.4620			.2920		-.0140	-.4460	-.2540	-.1260	-.0550
142.000										-.3690					
150.000			.4190	.2430	.4160	.7250			.4880		-.3090	-.2490	-.2460	-.1770	-.0810
157.000								.7450							
162.000									.4010						
165.000											-.5350	-.2280	-.2480	-.1700	-.0850
169.000									.2960						
172.000							.9550								
180.000	1.2820	.8770	.2370	.2220	.3550	.8160			.5600		-.7140	-.3750	-.4280	-.2320	-.1940

X/LB	.3873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							-.0320		-.1420
40.000	.2300	.3270		-.1280	-.1320	-.4780	-.2960			-.1870
70.000		.0470	-.0110	.1190	.1700	-.0240	-.1160	-.0090		
90.000		.0720	.1050	.1950	.1210	-.0390	-.1090	-.0300		
105.000				.2430	.0980	-.0610	-.0920	-.0580		
110.000									-.2460	
120.000		.0820	.2820	.4740	-.0040	-.1340	-.0090	-.0320	-.1430	
135.000				.6260	.2820	-.0250	.0990	.0470		
150.000		.0460	.3130	.3970	.2110	.1010	.1640	.0460		
165.000		.0570		.4340	.4050	.2050	.2010	-.1880		
180.000		-.0900	.2050	.3070						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2960	.7960	.0000	-.5010	-.2620	.2030			.1140		-.0040	-.1130	-.2030	-.3220	-.0390
20.000			.2290	-.3850	-.2160	.1960			.1150		-.0160				
40.000			.3510	-.2640	.0080	.1120			.0330		-.0960	-.1510	-.1890	-.2420	-.1470
55.000			.4030	-.1890	.1270	.2150			.1590		.0080				
70.000			.4150	-.1560	.1630	.2440			.1820		-.0250	-.3690	-.3140	-.1050	-.0350
90.000		.9880	.3960	-.1110	.2320	.2600			.1830		-.0610	-.4390	-.3830	-.1120	-.0500
120.000			.4040	.1020	.3330	.4140			.2210		-.0960	-.4670	-.2690	-.1360	-.0490
142.000										-.5380					
150.000			.3930	.2220	.4080	.7030			.4590		-.3440	-.2670	-.2540	-.1610	-.0700
157.000								.7080							
162.000									.3720						
165.000											-.6550	-.2550	-.2610	-.1620	-.0800
169.000									.3060						
172.000							.9630								
180.000	1.2960	.8810	.2540	.2350	.3850	.6370			.5780		-.7010	-.3890	-.3040	-.1930	-.1280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1930							-.0390		-.1240
40.000	.2120	.2800		-.1840	-.1890	-.4920	-.2880			-.2150
70.000		.0460	.0580	.1210	.1450	-.0490	-.1410	-.0530		
90.000		.0670	.1500	.1840	.0950	-.0520	-.1320	-.0660		
105.000				.2160	.0350	-.0810	-.1170	-.0940		
110.000									-.2560	
120.000		.0630	.3110	.4300	-.0500	-.1450	-.0360	-.0670	-.1750	
135.000				.6800	.2900	-.1080	.0540	.0090		
150.000		.0500	.3450	.4360	.2790	.0270	.1200	.0090		
165.000		.0520		.4640	.4380	.1440	.1470	-.2170		
180.000		-.0010	.2900	.3840						

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3000	.8010	.0000	-.5060	-.2430	.2020			.1290		.0110	-.1080	-.1930	-.2950	.0540
20.000			.2040	-.4080	-.2450	.2030			.1290		-.0030				
40.000			.2940	-.3140	-.0040	.1630			.0660		-.0770	-.1540	-.2020	-.2790	-.0940
55.000			.3300	-.2650	.1260	.2100			.1370		-.0320				
70.000			.3320	-.2540	.1580	.2150			.1510		-.0810	-.3980	-.3520	-.1310	-.04[illegible]
90.000		.9210	.3130	-.2150	.2020	.22[illegible]			.1380		-.1100	-.4640	-.4[illegible]	-.1[illegible]	-.[illegible]
120.000			.3400	.0270	.2910	.3620			.1480		-.1690	-.[illegible]	-.2[illegible]	-.[illegible]	

AMES 11-707 IA9 OA + S3 + T9 ORBITER FUSELAGE (RBN804)

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
142.000										-.6000					
150.000			.3560	.1920	.3680	.6710			.4270		-.3930	-.3080	-.2660	-.1640	-.0710
157.000								.6610							
162.000									.3340						
165.000											-.7140	-.2660	-.2610	-.1580	-.0810
169.000									.3050						
172.000							.9590								
180.000	1.3060	.9090	.2580	.2430	.4030	.8500			.5690		-.6910	-.4620	-.2410	-.1660	-.0900

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							-.0130		-.1180
40.000	.1860	.2245		-.2390	-.2150	-.4670	-.3000			-.2270
70.000		.0500	.0930	.1030	.1110	-.0880	-.1630	-.0940		
90.000		.0720	.1580	.1560	.0570	-.0960	-.1490	-.1030		
105.000				.1790	-.0060	-.1050	-.1390	-.1280		
110.000									-.2910	
120.000		.0730	.3190	.3550	-.1080	-.1730	-.0820	-.1030	-.2110	
135.000				.7080	.2860	-.1730	-.0130	-.0350		
150.000		.0580	.3600	.4630	.3350	-.0200	.0400	-.0300		
165.000		.0500		.4710	.4570	.0690	.0630	-.2490		
180.000		.0190	.3220	.4210						

MACH (3) = 1.099 BETAT (5) = 2.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3020	.7970	.0000	-.5140	-.2360	.2060			.1320		.0100	-.1080	-.1950	-.2990	.0580
20.000			.1440	-.4650	-.3060	.1940			.1260		-.0150				
40.000			.1720	-.4140	-.2580	.1740			.0910		-.0800	-.1830	-.2590	-.3370	.0400
55.000			.1710	-.4140	-.1830	.1820			.0900		-.1010				
70.000			.1600	-.4230	.0720	.1710			.0880		-.1840	-.4710	-.4330	-.1570	-.0580
90.000		.7740	.1460	-.3730	.1350	.1270			.0550		-.2330	-.5300	-.4810	-.1580	-.0760
120.000			.2020	-.1650	.1490	.2390			-.0030		-.3230	-.5690	-.3470	-.1930	-.0920
142.000										-.6850					
150.000			.2780	.0990	.3120	.5820			.3410		- 5230	-.4210	-.2210	-.1920	- 0930
157.000								.5290							
162.000									.2320						
165.000											-.7730	-.3830	-.1770	-.1710	-.1070
169.000									.2880						
172.000							.9210								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (3) = 1.099 BETAT (5) = 2.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3020	.8840	.2660	.2400	.4040	.8480			.5790		-.6790	-.4840	-.2340	-.1700	-.0910
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1890							-.0110		-.1340					
40.000	.1450	.0740		-.2520	-.2370	-.2310	-.2390			-.2230					
70.000		.0820	.1340	.0840	.0690	-.1410	-.2150	-.1630							
90.000		.1000	.1950	.1180	.0060	-.1520	-.2010	-.1620							
105.000				.1020	-.0850	-.1710	-.1970	-.2020							
110.000									-.3360						
120.000		.0970	.3240	.1940	-.2250	-.2540	-.1760	-.1830	-.2830						
135.000				.7280	.2280	-.3190	-.2210	-.1600							
150.000		.0650	.3650	.5670	.3910	-.0850	-.1360	-.1700							
165.000		.0390		.5020	.4710	-.0290	-.0670	-.3730							
180.000		.0230	.3240	.4250											

MACH (3) = 1.098 BETAT (6) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2880	.7980	.0000	-.5150	-.2450	.2030			.1140		-.0050	-.1120	-.2110	-.3220	-.3290
20.000			.1070	-.4910	-.3180	.1850			.1030		-.0320				
40.000			.1060	-.4650	-.3110	.1690			.0790		-.0950	-.2080	-.2920	-.3720	-.3240
55.000			.0880	-.4830	-.2920	.1600			.0630		-.1320				
70.000			.0680	-.4940	-.1270	.1290			.0540		-.2280	-.3070	-.4690	-.4700	-.3550
90.000		.6930	.0670	-.4430	-.0660	.0540			.0090		-.2930	-.3640	-.3110	-.1810	-.0791
120.000			.1360	-.2410	.0530	.1700			-.0770		-.3920	-.6100	-.3590	-.2350	-.1112
142.000										-.7310					
150.000			.2410	.0480	.2510	.5240			.2870		-.6300	-.4690	-.2480	-.2140	-.1187
157.000								.4530							
162.000									.1740						
165.000											-.7930	-.4745	-.1920	-.2201	-.1520
169.000									.2680						
172.000							.6850								
180.000	1.2880	.8780	.2630	.2370	.3860	.8300			.5630		-.6770	-.3800	-.2360	-.2000	-.1170
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1930							-.0420		-.1410					
40.000	.1350	-.0260		-.2140	-.2070	-.0140	-.2260			-.2870					

AMES 11-7ft IA9 OEA + 33 + T9 ORBITER FUSELAGE (RBMB04)

MACH (3) = 1.090 BETAT (6) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1140	.1320	.0720	.0500	-.1690	-.2490	-.2030		
90.000		.1270	.1890	.1030	-.0150	-.1850	-.2440	-.2110		
105.000				.0720	-.1500	-.2080	-.2440	-.2280		
110.000									-.3680	
120.000		.1350	.2990	.1250	-.2870	-.3150	-.2220	-.2280	-.3160	
135.000				.7030	.2020	-.3900	-.3560	-.2510		
150.000		.1060	.3370	.4880	.3900	-.0930	-.1820	-.2480		
165.000		.0400		.4710	.4410	-.0710	-.1260	-.4080		
180.000		.0270	.1950	.3760						

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0074	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3353	.5120
PHI															
.000	1.2710	.7340	.0000	-.5060	-.1750	.1880			.1000		-.0210	-.1160	-.2300	-.3430	-.2140
20.000			.0840	-.5080	-.2520	.1860			.0910		-.0670				
40.000			.0490	-.5080	-.3560	.1690			.0760		-.1100	-.2310	-.3290	-.4280	-.3360
55.000			.0130	-.5410	-.3620	.1220			.0580		-.1610				
70.000			-.0200	-.5550	-.3050	.0160			.0420		-.2640	-.5370	-.5000	-.1870	-.2590
90.000		.6130	-.0150	-.5050	-.1570	.0080			-.0140		-.3340	-.6010	-.3810	-.1390	-.2770
120.000			.0627	-.3280	-.0240	.1150			-.1620		-.4360	- 6390	-.3710	-.2710	-.1200
142.000										-.7670					
150.000			.1865	-.0140	.1860	.4600			.2190		-.6960	-.5240	-.2640	-.2390	-.1390
157.000								.3700							
162.000									.1160						
165.000											-.8090	-.5300	-.2550	- 3130	-.2380
169.000									.2440						
172.000							.8330								
180.000	1.2710	.8580	.2450	.2090	.3520	.7960			.5380		-.8760	-.3740	-.3940	-.2287	- 1320

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1740							-.0270		-.1490
40.000	.1070	-.0340		-.2000	-.2290	-.2410	-.2270			-.3110
70.000		.1280	.1340	.0610	.0470	-.1900	-.2600	-.2220		
90.000		.1300	.1880	.0970	-.0170	-.2040	-.2620	-.2270		
105.000				.0740	-.1720	-.2270	-.2610	-.2440		
110.000									-.3800	
120.000		.1430	.2890	.0850	-.3330	-.3570	-.2610	-.2650	-.3430	
135.000				.6840	.2210	-.4390	-.4480	-.3540		
150.000		.0100	.2260	.3700	.2930	-.1060	-.2300	-.3050		

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0120		.4060	.3710	- 1060	-.1750	-.4050		
180.000		-.0520	.1730	.2830						

MACH (3) = 1.098 BETAT (8) = 8.290

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2460	.7600	.0000	-.5120	-.1750	-.1160			.1150		-.0330	-.1480	-.2510	-.3390	-.3320
20.000			.0370	-.5300	-.2100	.0870			.0910		-.0850				
40.000			-.0230	-.5600	-.4260	.1370			.0680		-.1520	-.2690	-.3540	-.4830	-.0750
55.000			-.0700	-.6110	-.4490	.0610			.0450		-.1870				
70.000			-.1140	-.6280	-.4240	-.0070			.0090		-.2930	-.5770	-.5360	-.1980	-.0520
90.000		.5210	-.1040	-.5750	-.2580	-.0220			-.0800		-.3770	-.6340	-.5380	-.2220	-.0760
120.000			-.0070	-.3890	-.1230	.0400			-.2490		-.5550	-.6710	-.3870	-.3170	-.1560
142.000										-.7980					
150.000			.1330	-.0560	.1090	.3830			.1310		-.7330	-.5400	-.3250	-.2520	-.2280
157.000								.3000							
162.000									.0720						
165.000											-.8280	-.4870	-.4140	-.3890	-.3200
169.000									.2180						
172.000							.7710								
180.000	1.2460	.8380	.2300	.1950	.3180	.7540			.5050		-.6820	-.3860	-.4250	-.3470	-.3250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1270							-.0180		-.1450
40.000	.0820	-.0240		-.2590	-.2570	-.2680	-.2690			-.3090
70.000		.1180	.1280	.0520	.0430	-.2190	-.2860	-.2600		
90.000		.1110	.1650	.0910	-.0320	-.2200	-.2850	-.2570		
105.000				.0870	-.1860	-.2520	-.2890	-.2810		
110.000									-.3890	
120.000		.1100	.2580	.1270	-.3580	-.3020	-.3010	-.3210	-.3640	
135.000				.5060	.2340	-.4650	-.5180	-.5040		
150.000		-.0980	.1920	.3030	.2370	-.1180	-.2550	-.3370		
165.000		-.0570		.3050	.2630	-.1660	-.2380	-.4050		
180.000		-.2440	.1110	.2200						

MACH (4) = 1.248 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3120	.8940	.0010	-.2760	-.0540	-.2400			-.1810		.1700	.0580	-.0680	-.2020	-.3180
20.000			.4330	-.1360	-.0440	-.2180			-.0680		.1040				
40.000			.6260	.0550	.1430	-.2060			-.1380		-.0900	-.0910	-.0130	-.1630	-.0800
55.000			.7100	.1940	.3040	.1250			.2050		.1780				
70.000			.7280	.2280	.3460	.2520			.2810		.1560	-.1670	-.1370	.0230	.0240
90.000		1.2000	.6870	.2280	.3880	.3500			.3270		.1210	-.2270	-.2000	.0150	.0080
120.000			.6120	.2840	.4440	.5500			.4580		.0690	-.2710	-.1360	-.0290	-.0110
142.000										-.1390					
150.000			.5150	.2840	.4320	.7190			.6160		-.1790	-.1420	-.1480	-.1110	-.0410
157.000								.8800							
162.000									.5360						
165.000											-.3260	-.1180	-.1270	-.1070	-.0380
169.000									.3970						
172.000							1.0070								
180.000	1.3120	.8720	.2940	.2220	.3350	.8390			.6310		-.5520	-.2540	-.3150	-.2730	-.3030

X/LB	.3873	.6625	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	-.3270							.0280	-.1170	
40.000	-.1480	.3820		.0480	.0150	-.2790	-.5510		.0190	
70.000		-.0710	-.0290	-.0050	.1860	.0680	-.0120	-.0150		
90.000		-.0330	.0060	.1620	.1130	.0680	-.0430	-.0180		
105.000				.2350	.1180	.0660	-.0640	.0000		
110.000									-.1080	
120.000		-.0610	.0420	.5730	.1230	-.0390	-.0220	.0920	-.0120	
135.000				.5270	.3000	-.1510	.1980	.1960		
150.000		-.0750	.1270	.2640	.1520	.1580	.2830	.1950		
165.000		-.0500		.3530	.4110	.2950	.3280	-.0260		
180.000		-.2980	-.0590	.1130						

MACH (4) = 1.246 BETAT (2) = -6.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3380	.9010	.0000	-.2780	-.0770	-.1960			-.0910		.1990	.0580	-.0790	-.2000	-.2970
20.000			.4160	-.1560	-.0380	-.1980			-.1100		.1860				
40.000			.5720	-.0070	.1330	-.1980			-.1810		-.0850	.0130	-.0300	-.1270	-.1480
55.000			.6310	.0980	.2740	.0970			.1630		.1120				
70.000			.6420	.1170	.3240	.2190			.2350		.0890	-.2070	-.1300	-.0150	-.0050
90.000		1.1360	.6020	.1090	.3700	.3150			.2640		.0280	-.2600	-.2320	-.0150	-.0150
120.000			.5530	.1950	.4180	.5190			.3820		-.0290	-.3020	-.1650	-.0510	-.0170

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB04)

MACH (4) = 1.246 BETAT (2) = -6.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.2790					
150.000			.4860	.2460	.4270	.7900			.5930		-.2120	-.1890	-.1500	-.1240	-.0420
157.000								.8380							
162.000									.5120						
165.000											-.4270	-.1670	-.1470	-.1200	-.0400
169.000									.4040						
172.000							1.0270								
180.000	1.3380	.8910	.3080	.2170	.3550	.8750			.6470		-.5180	-.2750	-.3110	-.1780	-.1750

X/LB	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2880							.0140		-.1090
40.000	-.1210	.3310		.0000	-.0390	-.2950	-.3910			-.0090
70.000		-.0970	-.0270	.0270	.1530	.0350	-.0430	-.0310		
90.000		-.0710	.0130	.1420	.0860	.0330	-.0670	-.0290		
105.000				.1920	.0890	.0320	-.0880	-.0170		
110.000									-.1240	
120.000		-.0590	.0930	.4810	.0890	-.0820	-.0210	.0640	-.0470	
135.000				.5990	.3170	-.1450	.1580	.1480		
150.000		-.0550	.1290	.3050	.2100	.1320	.2360	.1510		
165.000		-.0420		.3710	.4440	.2590	.2770	-.0630		
180.000		-.1620	.0450	.1770						

MACH (4) = 1.244 BETAT (3) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3530	.9300	.0000	-.2860	-.0890	-.1040			-.0490		.1860	.0470	-.0690	-.1920	-.2770
20.000			.3930	-.1730	-.0570	-.1390			-.0290		.1750				
40.000			.5140	-.0580	.0860	-.2020			-.1160		.0660	-.0030	-.0480	-.1500	-.1650
55.000			.5580	.0080	.2280	.0720			.1230		.0780				
70.000			.5590	.0090	.3620	.1950			.1380		.0390	-.2240	-.1800	-.0410	-.0200
90.000		1.0750	.5200	.0160	.3530	.2850			.2040		-.0420	-.2830	-.2480	-.0450	-.0230
120.000			.4930	.0960	.3910	.4880			.3190		-.0810	-.3540	-.1890	-.0830	-.0340
142.000										-.3970					
150.000			.4620	.1980	.4230	.7770			.5690		-.2390	-.2120	-.1790	-.1210	-.0390
157.000								.8060							
162.000									.4850						
165.000											-.4870	-.1890	-.1900	-.1120	-.04[illegible]
169.000									.4150						
172.000							1.0380								

AMES 11-7D7 IA9 CBA + S5 + T9 ORBITER FUSELAGE (RBWB04)

MACH (4) = 1.244 BETAT (5) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3530	.9120	.3170	.2140	.3870	.9010			.0630		-.5050	-.3170	-.2610	-.1580	-.0990

X/LB	.5873	.6826	.7580	.7969	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1540							.0080		-.0980
40.000	-.1370	.2980		-.0540	-.1140	-.3130	-.2920			-.0970
70.000		-.1100	-.0120	.0470	.1350	.0190	-.0610	-.0350		
90.000		-.0820	.0340	.1340	.0810	.0190	-.0800	-.0540		
105.000				.1750	.0580	.0140	-.0650	-.0990		
110.000									-.1410	
120.000		-.0490	.1280	.4560	.0580	-.1140	-.0100	.0210	-.0740	
135.000				.0670	.3350	-.1270	.0860	.0940		
150.000		-.0540	.1580	.3380	.2880	.1060	.1550	.0900		
165.000		-.0290		.3970	.4810	.2280	.2050	-.1140		
180.000		-.0690	.0920	.2850						

MACH (4) = 1.247 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3440	.9340	.0000	-.2690	-.0700	.0550			-.0300		.1650	.0460	-.0990	-.1680	-.2990
20.000			.3640	-.1950	-.0630	-.0870			.0220		.1640				
40.000			.4540	-.1050	.0350	-.1770			-.0020		.0590	-.0130	-.0700	-.1550	-.1710
55.000			.4830	-.0650	.1260	.0600			.0130		.0630				
70.000			.4610	-.0650	.1870	.1770			.1140		.0000	-.2860	-.2190	-.0690	-.0280
90.000		1.0140	.4470	-.0540	.3840	.2580			.1730		-.0910	-.3090	-.2890	-.0700	-.0990
120.000			.4370	.0220	.3620	.4530			.2650		-.1480	-.3840	-.2100	-.0980	-.0350
142.000										-.3900					
150.000			.4350	.1490	.4170	.7550			.5440		-.2660	-.2590	-.2020	-.1190	-.0380
157.000								.7650							
162.000									.4530						
165.000											-.5250	-.2170	-.1970	-.1140	-.0480
169.000									.4210						
172.000							1.0350								
180.000	1.3440	.9280	.3310	.2040	.4160	.9170			.6720		-.4930	-.3700	-.1980	-.1320	-.0800

X/LB	.5873	.6826	.7580	.7969	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1250							.0290		-.1170
40.000	-.1940	.2420		-.1020	-.1680	-.3350	-.2700			-.0770

AMES 11-707 IA9 O2A + 83 + T9 ORBITER FUSELAGE (RBMB04)

MACH (4) = 1.247 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1140	.0020	.0970	.1260	-.0100	-.0790	-.0420		
90.000		-.0840	.0520	.1240	.0690	-.0070	-.0950	-.0500		
109.000				.1490	.0420	-.0070	-.0970	-.0590		
110.000									-.1630	
120.000		-.0460	.1640	.3840	.0020	-.1420	-.0260	-.0190	-.0960	
135.000				.7210	.3500	-.1050	.0120	.0400		
150.000		-.0240	.1640	.3690	.3730	.0780	.0800	.0300		
165.000		-.0240		.4120	.5180	.1960	.1440	-.1630		
180.000		-.0280	-.0120	.3960						

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	.9070	.0000	-.3210	-.1070	.0560			-.0350		.1840	.0470	-.0550	-.1630	-.2870
20.000			.2720	-.2900	-.1250	.0360			-.0270		.1570				
40.000			.3020	-.2380	-.0980	-.0940			.0250		.0630	-.0430	-.1150	-.2080	-.2240
55.000			.3000	-.2390	-.0950	.0480			.0440		-.0100				
70.000			.2930	-.2400	-.1440	.1480			.0640		-.0960	-.3330	-.3030	-.1270	-.0430
90.000		.8560	.2700	-.2140	-.0940	.2030			.0960		-.2040	-.3820	-.3520	-.1080	-.0440
120.000			.2980	-.1160	.1830	.3550			.1260		-.2460	-.4650	-.2810	-.1650	-.0510
142.000										-.4740					
150.000			.3560	.0520	.3200	.6710			.4570		-.3970	-.3280	-.2240	-.1500	-.0490
157.000								.6240							
162.000									.3450						
165.000											-.5740	-.3080	-.1700	-.1360	-.0690
169.000									.4030						
172.000							.9980								
180.000	1.3630	.9280	.3290	.1990	.4150	.9140			.6660		-.4840	-.3720	-.1910	-.1390	-.0620

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0980							.0290		-.1120
40.000	-.0660	.1060		-.1930	-.2030	-.3530	-.2270			-.1950
70.000		-.1220	.0380	.0770	.0900	-.0530	-.1120	-.0850		
90.000		-.0900	.0840	.1030	.0480	-.0510	-.1250	-.0950		
109.000				.0820	-.0190	-.0730	-.1270	-.1080		
110.000									-.2120	
120.000		-.0720	.1750	.2590	-.1120	-.2370	-.0930	-.1060	-.1690	
135.000				.6000	.3030	-.2020	-.1790	-.1210		
150.000		-.0370	.0080	.3650	.4610	.0290	-.0460	-.0990		

AMES 11-70? IA9 CEA + 33 + 79 ORBITER FUSELAGE (RUN804)

MACH (4) = 1.845 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.9873	.9826	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
168.000		-.0970		.9070	.5420	.0970	.0290	-.2670		
180.000		-.0360	-.0050	.3950						

MACH (4) = 1.248 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3480	.9050	.0000	-.2920	-.0930	-.1170			-.0740		.2040	.0580	-.0510	-.1840	-.2880
20.000			.2610	-.2810	-.1370	-.0100			-.0680		.1610				
40.000			.2460	-.2700	-.1470	-.0460			-.0360		.0570	-.0490	-.1420	-.2410	-.2540
55.000			.2180	-.2970	-.1850	.0390			.0270		.0070				
70.000			.2040	-.3150	-.2450	.1350			.0450		-.1320	-.3450	-.3200	-.1440	-.0480
90.000		.7750	.1950	-.2830	-.1760	.1740			.0570		-.2380	-.3990	-.3680	-.1270	-.0310
120.000			.2370	-.1670	.0900	.2970			.0580		-.2840	-.4800	-.3280	-.1960	-.0690
142.000										-.5130					
150.000			.3180	.0420	.2570	.6130			.4010		-.4510	-.3520	-.2150	-.1610	-.0550
157.000								.5570							
162.000									.2950						
165.000											-.5780	-.3610	-.1620	-.1840	-.1330
168.000									.3870						
172.000							.9570								
180.000	1.3480	.9220	.3260	.2220	.3850	.8930			.6470		-.4760	-.3370	-.2460	-.1550	-.0990

X/LB	.9873	.9826	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	-.0740							.0170		-.1200
40.000	.0890	.0240		-.2010	-.1880	-.2400	-.2150			-.2070
70.000		-.1200	.0450	.0760	.0790	-.0730	-.1360	-.1080		
90.000		-.0690	.0080	.0880	.0360	-.0820	-.1510	-.1190		
103.000				.0850	-.0870	-.1170	-.1480	-.1320		
110.000									-.2230	
120.000		-.0910	.1520	.1770	-.1730	-.2900	-.1340	-.1430	-.1720	
135.000				.6960	.3010	-.2470	-.2570	-.2420		
150.000		-.0540	.0810	.2540	.3610	.0430	-.0890	-.1490		
155.000		-.1010		.2880	.4420	.0710	-.0190	-.2900		
180.000		-.0710	.0940	.2850						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

MACH (4) = 1.243 BETAT (7) = 6.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3260	.6930	.0000	-.2820	-.0490	-.1950			-.0970		.2130	.0780	-.0620	-.1920	-.3100
20.000			.2360	-.2840	-.1630	-.1310			-.0800		.1700				
40.000			.1900	-.3070	-.1920	-.0190			-.0490		.0660	-.0840	-.1710	-.2840	-.2850
55.000			.1440	-.3500	-.2550	.0430			.0130		-.0080				
70.000			.1160	-.3690	-.2890	.1290			.0410		-.1800	-.3660	-.3520	-.1570	-.0590
90.000		.6920	.1160	-.3340	-.2500	.1590			.0320		-.2600	-.4480	-.3840	-.1410	-.0640
120.000			.1660	-.2140	.0130	.2490			.0010		-.3220	-.4990	-.3430	-.2150	-.0930
142.000										-.5420					
150.000			.2650	.0180	.1950	.5490			.3300		-.4880	-.3810	-.2260	-.1900	-.0910
157.000								.4770							
162.000									.2440						
165.000											-.5880	-.3920	-.1910	-.2520	-.2090
169.000									.3640						
172.000							.9090								
180.000	1.3280	.6980	.3080	.2190	.3470	.8570			.6220		-.4750	-.2670	-.2860	-.1680	-.1670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1620							.0280		-.1190
40.000	-.0800	-.0380		-.1180	-.2220	-.2400	-.2360			-.2420
70.000		-.0960	.0860	.1200	.1250	-.0530	-.1320	-.1130		
90.000		-.0850	.1110	.1200	.0870	-.0700	-.1330	-.1190		
105.000				.1310	-.0530	-.0950	-.1400	-.1360		
110.000									-.2490	
120.000		-.1060	.1690	.1680	-.1840	-.2580	-.1390	-.1580	-.2090	
135.000				.6770	.3490	-.2700	-.2950	-.2930		
150.000		-.1410	.0640	.2810	.3290	.0350	-.0750	-.1610		
165.000		-.1380		.3190	.3890	.0290	-.0480	-.2950		
180.000		-.1610	.0340	.2030						

MACH (4) = 1.245 BETAT (8) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.8830	.0000	-.2770	-.0470	-.2460			-.1840		.1760	.0710	-.0600	-.1830	-.3250
20.000			.1960	-.3110	-.0990	-.2560			-.0940		.1420				
40.000			.1220	-.3560	-.2640	-.0670			-.0780		.0390	-.1080	-.2200	-.3270	-.2970
55.000			.0650	-.4130	-.3200	.0440			-.0130		-.0220				
70.000			.0290	-.4330	-.3550	.1290			.0170		-.2260	-.4000	-.3890	-.1580	-.0[illegible]
90.000		.6060	.0290	-.4000	-.3200	.1480			-.0010		-.3140	-.4980	-.4090	-.1540	-.0[illegible]
120.000			.1000	-.2640	-.0670	.2000			-.0690		-.3780	-.5380	-.3650	-.2430	-.1070

AMES 11-707 IA9 OEA + S9 + T9 ORBITER FUSELAGE (RBMB04)

MACH (4) = 1.245 BETAT (8) = 0.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
142.000										-.5860					
150.000			.2140	-.0040	.1440	.4700			.2590		-.5420	-.4300	-.2450	-.2090	-.2090
157.000								.4200							
162.000									.2130						
169.000											-.6040	-.4250	-.2720	-.3270	-.2880
169.000									.3470						
172.000							.8440								
180.000	1.2990	.8830	.2940	.2070	.3130	.8140			.5990		-.5080	-.2730	-.2870	-.2670	-.2940

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3070							.0530		-.0950
40.000	-.0430	-.0300		- 2310	-.2490	-.2480	-.2230			-.2740
70.000		.0600	.0650	.0900	.1120	-.0830	-.1560	-.1520		
90.000		-.0150	.1080	.1190	.0340	-.1040	-.1600	-.1490		
109.000				.1200	-.0990	-.1300	-.1620	-.1670		
110.000									-.2660	
120.000		-.0490	.1650	.1720	-.2190	-.3120	-.1930	-.2050	-.2410	
135.000				.4620	.3210	-.3000	-.3340	-.3690		
150.000		-.2310	.0550	.2420	.2250	-.0190	-.1410	-.2210		
165.000		-.1580		.2480	.3030	-.0440	-.1150	-.3110		
180.000		-.3130	-.0430	.1220						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RUN 305) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 CRBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .800 BETAT (1) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0539	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.0770	.4310	.0000	-.7050	-.1410	-.0820			-.0950		-.1090	-.0950	-.0620	-.0250	.0180
20.000			-.3790	-.6330	-.1410	-.0920			-.0960		-.1200				
40.000			-.2700	-.5250	-.1400	-.1090			-.1200		-.1760	-.1490	-.0720	-.0320	.0170
55.000			-.2190	-.4600	-.0920	-.0620			-.0960		-.1490				
70.000			-.1980	-.4010	-.0940	-.0510			-.1040		-.1870	-.4110	-.1030	-.0140	.0170
90.000		.5270	-.1660	-.3600	-.0510	-.0580			-.1320		-.2150	-.4360	-.1050	-.0180	-.0040
120.000			-.0660	-.1750	.0300	.0200			-.2160		-.2650	-.2880	-.0910	-.0270	-.0090
142.000										-.4650					
150.000			.0310	.0020	.1460	.3110			-.1650		-.4450	-.1850	-.0860	-.0370	-.0030
157.000								.1960							
162.000									-.2770						
165.000											-.4460	-.1570	-.0790	-.0320	-.0170
169.000									-.2400						
172.000							.6170								
180.000	1.0770	.9980	.0030	.0780	.1950	.5530			.1770		-.5310	-.1500	-.1170	-.0380	-.0110

X/LB	.5875	.6626	.7380	.7389	.8283	.8848	.9322	.9639	1.0015	1.0092
PHI										
.000	.0470							-.0860		.0470
40.000	.0180	-.0820		-.2770	-.3090	-.1930	-.1060			-.1520
70.000		-.0950	-.1330	-.1260	-.0330	-.0650	-.0510	-.0860		
90.000		-.0530	-.0580	-.0950	-.0780	-.1090	-.0980	-.1190		
105.000				-.0910	-.1530	-.1400	-.1200	-.1530		
110.000									-.2580	
120.000		-.0090	.0980	-.0310	-.4160	-.2160	-.1290	-.1380	-.1940	
135.000				.4250	-.0420	-.2440	-.1630	-.1850		
150.000		.3140	.1410	.2950	.0540	-.1960	-.1850	-.2380		
165.000		.0190		.2370	.1760	-.1590	-.2020	-.2810		
180.000		.0220	.0990	.1450						

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RDMBDS)

MACH (1) = .998 BETAT (2) = 4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0330	.4110	.0000	-.7330	-.1620	-.1100			-.1210		-.1330	-.1230	-.0940	-.0490	-.0110
20.000			-.4910	-.6910	-.1620	-.1140			-.1210		-.1490				
40.000			-.4680	-.6280	-.1740	-.1170			-.1310		-.1950	-.1680	-.0940	-.0540	-.0080
55.000			-.4590	-.6210	-.1670	-.1220			-.1510		-.1880				
70.000			-.4720	-.5850	-.1780	-.1210			-.1670		-.2330	-.4330	-.1170	-.0220	.0100
90.000		.3140	-.4450	-.5380	-.1590	-.1480			-.2180		-.2740	-.4580	-.1180	-.0330	-.0040
120.000			-.2700	-.3290	-.1090	-.1230			-.4120		-.3070	-.3160	-.1230	-.0590	-.0190
142.000										-.6870					
150.000			-.0870	-.1020	.0460	.1750			-.2980		-.4420	-.2090	-.1120	-.0580	-.0220
157.000								.0040							
162.000									-.4450						
165.000											-.4690	-.1680	-.1000	-.0640	-.0640
169.000									-.3120						
172.000							.5420								
180.000	1.0330	.5870	-.0040	.0500	.1760	.5190			.1470		-.5190	-.1750	-.1520	-.0700	-.0440

X/LB	.5873	.6605	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0280							-.0970		.0140
40.000	-.0120	-.1290		-.2080	-.2000	-.1700	-.1360			-.2450
70.000		-.1010	-.1570	-.1800	-.0910	-.1160	-.0940	-.1240		
90.000		-.0850	-.0990	-.1700	-.1480	-.1650	-.1410	-.1480		
105.000				-.2010	-.2400	-.1990	-.1720	-.1850		
110.000									-.2730	
120.000		-.0390	.0450	-.2270	-.6250	-.3000	-.1890	-.1830	-.2220	
135.000				.3940	-.1680	-.3950	-.2750	-.2560		
150.000		-.0030	.1080	.2980	.0800	-.3000	-.2690	-.2800		
165.000		-.0320		.2140	.1590	-.3250	-.3100	-.2810		
180.000		-.0180	.0640	.1070						

MACH (1) = .999 BETAT (3) = 6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0320	.3820	.0000	-.7310	-.1940	-.1410			-.1560		-.1720	-.1600	-.1290	-.0750	-.0500
20.000			-.5450	-.7280	-.1910	-.1430			-.1570		-.1900				
40.000			-.5660	-.6910	-.2070	-.1450			-.1610		-.2240	-.1860	-.1140	-.0690	-.0210
55.000			-.5830	-.7200	-.2030	-.1470			-.1730		-.2100				
70.000			-.6040	-.6730	-.2220	-.1500			-.1950		-.2560	-.4430	-.1310	-.0270	.0090
90.000		.1980	-.5800	-.6395	-.2110	-.1930			-.2560		-.3050	-.4630	-.1280	-.0360	-.0120
120.000			-.3890	-.4250	-.1750	-.2010			-.5050		-.3350	-.3340	-.1450	-.0750	-.0310

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7DT IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB05)

MACH (1) = .999 BETAT (3) = 6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.6860					
142.000									-.3720		-.4540	-.2320	-.1370	-.0730	-.0280
150.000			-.1660	-.1750	-.0180	.0860									
157.000								-.1180							
162.000									-.3650						
165.000											-.5260	-.1880	-.1300	-.1290	-.1110
169.000									-.3620						
172.000							.4800								
180.000	1.0320	.5570	-.0400	.0200	.1400	.4780			.1090		-.5790	-.2110	-.1600	-.1110	-.0980

X/LB	.5875	.6826	.7560	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0070							-.1060		-.0110
40.000	-.0180	-.1360		-.1870	-.1990	-.1810	-.1800			-.2990
70.000		-.1380	-.1800	-.2120	-.1220	-.1490	-.1240	-.1540		
90.300		-.0770	-.1200	-.1990	-.1730	-.1880	-.1680	-.1720		
105.000				-.2530	-.2910	-.2330	-.1940	-.2020		
110.000									-.2770	
120.000		-.0580	.0160	-.3110	-.7250	-.3410	-.2290	-.2190	-.2480	
135.300				.3860	-.2290	-.4930	-.3450	-.3010		
150.000		-.0420	.0550	.2290	.0620	-.3480	-.3120	-.2970		
165.000		-.0780		.1730	.1190	-.4100	-.3690	-.2910		
180.000		-.0760	.0050	.0210						

MACH (1) = .999 BETAT (4) = 8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.9920	.3330	.0000	-.7900	-.2360	-.1880			-.1900		-.2160	-.1970	-.1750	-.1000	-.0580
20.000			-.6190	-.7860	-.2370	-.1890			-.1950		-.2270				
40.000			-.6890	-.7810	-.2380	-.1710			-.1930		-.2540	-.2120	-.1370	-.0890	-.0330
55.000			-.7250	-.8200	-.2350	-.1710			-.1960		-.2260				
70.000			-.7440	-.7670	-.2520	-.1810			-.2230		-.2670	-.4410	-.1270	-.0270	.0060
90.000		.0720	-.7240	-.7410	-.2570	-.2370			-.2970		-.3150	-.4470	-.1260	-.0380	-.0090
120.000			-.4970	-.5130	-.2550	-.2870			-.6100		-.3480	-.3500	-.1570	-.0850	-.0410
142.000										-1.0550					
150.000			-.2410	-.2420	-.0920	-.0110			-.4550		-.4640	-.2510	-.1550	-.0810	-.0650
157.000								-.2460							
162.000									-.6710						
165.000											-.5760	-.2140	-.2007	-.1660	-.161
169.000									-.4150						
172.000							.4040								

AMES 11-707 IA9 OEA + 33 + T9 ORBITER FUSELAGE (RBMB05)

MACH (1) = .599 BETAT (4) = 8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1731	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	.9920	.5270	-.0580	-.0150	.1000	.4210			.0590		-.6500	-.2530	-.2190	-.1960	-.1920

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0010							-.1170		-.0360
40.000	-.0100	-.1060		-.2630	-.2760	-.2230	-.2390			-.2680
70.000		-.1110	-.2010	-.2420	-.1420	-.1820	-.1630	-.1850		
90.000		-.0830	-.1360	-.2280	-.2040	-.2240	-.1950	-.1990		
105.000				-.2820	-.3290	-.2660	-.2240	-.2290		
110.000									-.2870	
120.000		-.0870	-.0090	-.3620	-.7960	-.3780	-.2620	-.2440	-.2650	
135.000				.3560	-.2930	-.5850	-.4100	-.3420		
150.000		-.1170	-.0270	.1250	.0030	-.4170	-.3710	-.3150		
165.000		-.1280		.1320	.0570	-.4950	-.4240	-.2960		
180.000		-.1700	-.1240	-.0720						

MACH (2) = .903 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1630	.6200	.0030	-.0960	-.3530	-.1710			-.1990		-.2870	-.3820	-.2980	-.1010	-.0080
20.000			.0210	-.0990	-.4030	-.1790			-.1770		-.2690				
40.000			.2370	-.4400	-.2040	-.2610			-.2560		-.3290	-.3990	-.1520	-.0200	.1050
55.000			.3370	-.2160	.0360	.0660			.0380		-.0600				
70.000			.3680	-.1200	.0920	.1370			.0700		-.0640	-.6410	-.0310	.0740	.0980
90.000		.9680	.3460	-.0740	.1760	.1820			.0960		-.0730	-.7800	-.0530	.0590	.0830
120.000			.3020	.0480	.2480	.3230			.1760		-.1580	-.8090	-.0370	.0280	.0400
142.000										-.5130					
150.000			.2110	.0700	.2430	.5580			.2650		-.5580	-.5830	-.0640	.3060	.0220
157.000								.5780							
162.000									.1630						
165.000											-.5300	-.4970	-.0330	.0270	.0360
169.000									-.0090						
172.000							.7630								
180.000	1.1630	.6650	-.0420	-.0120	.1310	.5980			.3000		-1.0850	-.7130	-.2340	-.1960	-.1870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1100							-.1170		-.0920
40.000	.1930	.2460		-.1060	-.2630	-.2630	-.2030			-.1530

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM005)

MACH (2) = .903 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0500	-.0930	-.0180	.0970	.0540	.0820	.0410		
90.000		-.0150	.0110	.0810	.0540	.0110	.0410	.0240		
105.000				.1620	.0000	-.0140	.0210	-.0060		
110.000									-.2540	
120.000		-.0060	.1630	.3730	-.1320	-.0580	.0360	.0110	-.1580	
135.000				.4050	.0810	-.0480	.0350	-.0290		
150.000		.0150	.1760	.2210	-.0170	.0280	.0530	-.0980		
165.000		.0430		.2560	.2120	.1100	.0760	-.3130		
180.000		-.1260	.0250	.0980						

MACH (2) = .901 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1900	.6420	.0000	-.9140	-.3320	-.1210			-.1590		-.2540	-.3450	-.1340	-.0570	.0280
20.000			-.0030	-.7460	-.4010	-.1320			-.1480		-.2440				
40.000			.1710	-.5500	-.2500	-.2000			-.2200		-.3340	-.3770	-.1050	-.0090	.0990
55.000			.2470	-.3610	-.0340	.0370			-.0110		-.0980				
70.000			.2660	-.2630	.0190	.0950			.0170		-.1100	-.0670	-.0470	.0060	.0860
90.000		.9060	.2420	-.2010	.1050	.1340			.0270		-.1140	-.7810	-.0800	.0570	.0540
120.000			.2100	-.0360	.1970	.2800			.0960		-.1780	-.0250	-.0520	.0370	.0460
142.000										-.6500					
150.000			.1630	.0270	.2310	.5440			.2400		-.5440	-.5700	-.0450	.0180	.0290
157.000								.5500							
162.000									.1390						
165.000											-.7010	-.5090	-.0520	.0310	.0330
169.000									.0020						
172.000							.7820								
180.000	1.1900	.6830	-.0430	-.0060	.1560	.6340			.3190		-1.1670	-.6810	-.1710	-.0730	-.0360

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1160							-.1790		-.0630
40.000	.1710	.2130		-.1470	-.2870	-.2660	-.1760			-.1400
70.000		-.0510	.0010	-.0550	.0410	.0070	.0540	.0200		
90.000		-.0133	.0040	.0290	-.0100	-.0350	.0120	.0030		
105.000				.1020	-.0770	-.0600	-.0030	-.0260		
110.000									-.2530	
120.000		-.1090	.1631	.1830	-.2220	-.1130	.0340	-.0190	-.1730	
135.000				.4340	.0760	-.0870	.0150	-.0540		
150.000		.0333	.0230	.0071	.0711	-.0135	.0111	-.0290		

DATE 10 SEP 79 TABULATED PRESSURE DATA - 1X9A

AMES 11-FOOT 1A9 OEA + 99 79 ORBITER FUSELAGE (RUN858)

MACH (2) = .901 BETAT (2) = -6.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9679	1.0015	1.0392
PHI										
165.000		.0410		.2700	.2200	.0600	.0200	-.3150		
180.000		-.0720	.0650	.1400						

MACH (3) = .902 BETAT (3) = -4.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1566	.1581	.1732	.1956	.2289	.2711	.3275	.3783	.4130
PHI															
.000	1.2770	.7910	.0000	-.9250	-.1030	-.0850			-.1530		-.2340	-.3260	-.7990	-.7190	-.1870
20.000			-.0310	-.7770	-.7950	-.1010			-.1320		-.2330				
40.000			.1370	-.6320	-.2390	-.1590			-.1920		-.2840	-.3640	-.3760	-.2000	-.1270
55.000			.1620	-.5340	-.1090	.0090			-.0520		-.1370				
75.000			.1660	-.4590	-.1600	.0540			-.0320		-.1550	-.1920	-.0690	-.0580	-.0750
90.000		.0070	.1370	-.3520	-.0920	.0850			-.0330		-.1550	-.1810	-.1050	-.0510	-.0430
120.000			.1330	-.1200	.1420	.2330			.0140		-.1210	-.0360	-.0460	-.0370	-.0370
142.000										-.1380					
150.000			.1240	-.0060	.0140	.3230			.2130		-.0270	-.0740	-.0370	-.0250	-.0220
157.000								.5110							
162.000									.1080						
165.000											-.0370	-.0470	-.0320	-.0300	-.0280
169.000									.0170						
172.000							.7930								
180.000	1.2070	.6980	-.0350	.0030	.1800	.6620			.3390		-1.1600	-.6440	-.036	-.15	

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1250							-.0910		-.0240
40.000	.1310	.1510		-.1720	-.3010	-.2490	.1660			-.1490
70.000		-.0490	-.1020	-.1050	-.0190	-.0420	.0230	-.0040		
90.000		-.0130	-.0035	-.0220	-.0770	-.0930	-.0160	-.0210		
105.000				.0440	-.1480	-.1180	-.0350	-.0540		
110.000									-.2700	
120.000		.0130	.1570	.2010	-.3330	-.1660	-.0350	-.0500	-.1870	
135.000				.4770	.0580	-.1620	-.0410	-.0870		
150.000		.0350	.1880	.2540	.0550	-.0880	-.0420	-.1650		
165.000		.0410		.2820	.2330	-.0180	-.0330	-.3190		
180.000		.0150	.1210	.1870						

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM205)

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2150	.6750	.0000	-.9260	-.5760	-.0670			-.1220		-.2350	-.3100	-.0830	.0020	.0720
20.000			-.0530	-.6040	-.5910	-.0800			-.1210		-.2370				
40.000			.0490	-.6850	-.3020	-.1240			-.1710		-.2800	-.3530	-.0590	.0040	.0850
55.000			.0850	-.6320	-.1610	-.0180			-.0860		-.1970				
70.000			.0750	-.5960	-.1150	.0190			-.0760		-.2550	-.7160	-.0870	.0490	.0700
90.000		.7640	.0420	-.5240	-.0320	.0380			-.0870		-.2960	-.8150	-.1150	.0430	.0450
120.000			.0570	-.2240	.0860	.1760			-.0730		-.3780	-.8430	-.0380	.0340	.0460
142.000										-1.0180					
150.000			.0770	-.0550	.1910	.4900			.1760		-.7280	-.5460	-.0570	.0250	.0350
157.000								.4580							
162.000									.0630						
165.000											-.9630	-.5030	-.0480	.0380	.0270
169.000									.0160						
172.000							.7910								
180.000	1.2150	.6750	-.0320	.0040	.1950	.6790			.3490		-1.1510	-.5890	-.0600	.0090	.0220

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1310							-.0690		.0350
40.000	.1330	.0970		-.2030	-.3170	-.2330	-.1480			-.1520
70.000		-.0460	-.1020	-.1430	-.0850	-.1130	-.0050	-.0240		
90.000		-.0110	-.0070	-.0590	-.1510	-.1520	-.0430	-.0400		
105.000				-.0120	-.2350	-.1760	-.0650	-.0680		
110.000									-.2680	
120.000		.0190	.1580	.1340	-.4140	-.2270	-.0710	-.0720	-.1960	
135.000				.5000	.0400	-.2580	-.0950	-.1230		
150.000		.0410	.1930	.3200	.0880	-.1710	-.0920	-.2040		
165.000		.0430		.2920	.2310	-.1040	-.0910	-.3090		
180.000		.0370	.1440	.2090						

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2170	.6640	.0000	-.9360	-.5490	-.0640			-.1150		-.2300	-.3180	-.0860	.0070	.0750
20.000			-.1140	-.8630	-.6690	-.0700			-.1150		-.2670				
40.000			-.0790	-.7960	-.5900	-.0820			-.1410		-.3330	-.3820	-.0640	.0010	.0770
55.000			-.0830	-.7960	-.1740	-.0620			-.1380		-.3450				
70.000			-.1080	-.8060	-.1400	-.0450			-.1510		-.4400	-.7890	-.1410	.0470	
90.000		.6090	-.1380	-.7530	-.1100	-.0500			-.1860		-.4710	-.8690	-.1610	.0410	
120.000			-.0900	-.7440	-.3410	.0550			-.2 00		-.5740	-.6030	-.0810	.0300	.0730

AMES 11-707 IA9 OEA + 33 + TO ORBITER FUSELAGE (RDMB03)

MACH (2) = .903 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1430					
150.000			-.0060	-.1530	.1090	.3900			.0840		-.8160	-.5530	-.1090	.0330	.0370
157.000								.3100							
162.000									-.0550						
165.000											-.8830	-.5760	-.0660	.0410	.0140
169.000									-.0030						
172.000							.7490								
180.000	1.2170	.6850	-.0300	.0030	.1970	.6750			.3410		-1.1410	-.4220	-.0750	.0150	.0260

X/LB	.7877	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1330							-.0700	-.0400	
40.000	.0930	-.0750		-.2170	-.2860	-.2080	-.1580		-.1960	
70.000		-.1600	-.0970	-.1860	-.1650	-.3180	-.0820	-.0690		
90.000		-.0070	-.0190	-.1280	-.2440	-.3890	-.1180	-.0390		
105.000				-.1040	-.3430	-.4190	-.1570	-.1150		
110.000									-.3000	
120.000		.0230	.1290	-.0440	-.5650	-.4950	-.1570	-.1430	-.2290	
135.000				.4860	-.0110	-.6010	-.2790	-.2290		
150.000		.0430	.1760	.3680	.1410	-.3630	-.2840	-.2940		
165.000		.0330		.2970	.2370	-.3010	-.2960	-.3090		
180.000		.0400	.1410	.2100						

MACH (2) = .900 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2030	.6570	.0000	-.9420	-.4590	-.0870			-.1280		-.2410	-.3380	-.1000	-.0120	.0520
20.000			-.1570	-.6940	-.6870	-.0900			-.1290		-.2820				
40.000			-.1530	-.8500	-.6660	-.0850			-.1480		-.3500	-.4150	-.0670	-.0030	.0560
55.000			-.1750	-.8680	-.3140	-.0860			-.1650		-.3810				
70.000			-.2070	-.8890	-.2190	-.0790			-.1860		-.4890	-.8210	-.1780	.0430	.0640
90.000		.5230	-.2270	-.8350	-.1650	-.0960			-.2370		-.5350	-.8890	-.1790	.0420	.0370
120.000			-.1620	-.5310	-.1260	-.0200			-.3330		-.6620	-.7520	-.1180	.0100	.0290
142.000										-1.1980					
150.000			-.0450	-.2010	.0520	.3230			.0270		-.8670	-.5720	-.1250	.0390	.0300
157.000								.2210							
162.000									-.1220						
165.000											-.9300	-.6000	-.1180	.0000	-.0
169.000									-.0250						
172.000							.7080								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A - S3 + T9 ORBITER FUSELAGE (RBM805)

MACH (2) = .900 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2030	.6820	-.0250	-.0010	.1810	.6520			.3270		-1.1310	-.4860	-.1000	-.0170	.0010

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1250							-.0970		-.0410
40.000	.0760	-.0800		-.1940	-.2290	-.1960	-.1490			-.2610
70.000		-.0230	-.0960	-.2000	-.1940	-.4250	-.1440	-.1000		
90.000		.0040	-.0230	-.1490	-.2790	-.4570	-.1780	-.1070		
105.000				-.1370	-.4090	-.4610	-.2130	-.1320		
110.000									-.3020	
120.000		.0200	.1210	-.1020	-.6220	-.5490	-.3950	-.1610	-.2470	
135.000				.4990	-.0360	-.6910	-.4810	-.2840		
150.000		.0310	.1530	.3180	.1550	-.3850	-.4450	-.3790		
165.000		.0070		.2790	.2230	-.3460	-.3840	-.3170		
180.000		.0150	.1180	.1870						

MACH (2) = .904 BETAT (7) = 6.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1810	.6360	.0000	-.9280	-.3170	-.1290			-.1510		-.2630	-.3660	-.1570	-.0390	.0160
20.000			-.1850	-.9110	-.4420	-.1230			-.1510		-.3030				
40.000			-.2120	-.8980	-.6980	-.1050			-.1550		-.3760	-.4660	-.0850	-.0170	.0460
55.000			-.2540	-.9400	-.5040	-.1100			-.1780		-.4050				
70.000			-.2940	-.9560	-.3280	-.1060			-.2100		-.5270	-.8300	-.2200	.0450	.0700
90.000		.4350	-.3080	-.9070	-.1830	-.1450			-.2700		-.5860	-.7660	-.2190	.0450	.0420
120.000			-.2350	-.6380	-.2410	-.1060			-.4160		-.7420	-.6120	-.1350	.0120	.0260
142.000										-1.2440					
150.000			-.1010	-.2770	-.0210	.2410			-.0430		-1.0330	-.6170	-.1110	.0320	.0140
157.000								.1230							
162.000									-.1940						
165.000											-.9650	-.6480	-.1560	-.0570	-.0050
169.000									-.0500						
172.000							.6440								
180.000	1.1810	.6590	-.0341	-.0280	.1500	.6130			.3010		-1.1160	-.6480	-.1110	-.0620	-.0590

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1190							-.1150		-.0850
40.000	.0720	-.0990		-.1920	-.2210	-.2170	-.1810			-.3040

MACH (2) = .904 BETAT (8) = 6.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
75.000		-.0200	-.0970	-.2050	-.2140	-.4660	-.2170	-.1230		
90.000		.0040	-.0280	-.1610	-.3040	-.4830	-.3530	-.1220		
105.000				-.1580	-.4660	-.4870	-.4900	-.1570		
110.000									-.2990	
120.000		.0160	.1090	-.1320	-.6640	-.5930	-.5170	-.2280	-.2520	
135.000				.4840	-.0470	-.7550	-.5940	-.5490		
150.000		-.0130	.1120	.2510	.1310	-.4070	-.5150	-.5010		
165.000		-.0230		.2420	.1920	-.3880	-.4420	-.3330		
180.000		-.0560	.0440	.1010						

MACH (2) = .904 BETAT (8) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0047	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1510	.6150	.0000	-.9180	-.3790	-.1750			-.2020		-.2520	-.4010	-.3010	-.0720	-.0210
20.000			-.2320	-.9380	-.3780	-.1690			-.1990		-.3310				
40.000			-.2910	-.9530	-.6890	-.1360			-.1870		-.4097	.5220	-.1060	-.0350	.0420
55.000			-.3500	-1.0140	-.7020	-.1350			-.2020		-.4300				
70.000			-.4060	-1.0330	-.4610	-.1450			-.2410		-.5650	-.7010	-.1870	.0490	.0740
90.000		.3410	-.4090	-.9790	-.4390	-.1940			-.3200		-.6510	-.4910	-.1860	.0420	.0480
120.000			-.3110	-.7090	-.3570	-.1900			-.5080		-.8290	-.4820	-.1890	.0110	.0240
142.000										-1.2840					
150.000			-.1470	-.3180	-.1000	.1590			-.1260		-1.1580	-.6310	-.1700	-.0090	-.0660
157.000								.0300							
162.000									-.2520						
165.000											-1.1420	-.6280	-.2270	-.1180	-.1050
169.000									-.0820						
172.000							.5780								
180.000	1.1510	.6480	-.0370	-.0300	.1180	.5660			.2610		-1.0320	-.7250	-.2310	-.1910	-.1710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1030							-.1150		-.0780
40.000	.0790	-.0480		-.2410	-.2480	-.2410	-.2390			-.3020
70.000		-.0220	-.0960	-.2180	-.2310	-.5040	-.3770	-.2000		
90.000		.0020	-.0330	-.1700	-.3180	-.5180	-.5410	-.1940		
105.000				-.1650	-.4790	-.5430	-.5570	-.2430		
110.000									-.3000	
120.000		.0130	.0980	-.1170	-.6960	-.6430	-.5630	-.4260	-.2640	
135.000				.4190	-.0560	-.8330	-.6[illegible]	-.6410		
150.000		-.0740	.0530	.1800	.0830	-.4230	-.5640	-.5640		

DATE 13 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7OT IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMBDS)

MACH (2) = .899 BETAT (8) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
185.000		-.0680		.1770	.1390	-.4610	-.5130	-.3540		
180.000		-.1350	-.0050	.0840						

MACH (3) = 1.100 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2500	.7840	.0000	-.4830	-.1910	-.0990			.1130		-.0460	-.1440	-.2490	-.3610	-.3270
20.000			.2880	-.3300	-.2010	-.0840			.1330		-.0230				
40.000			.4840	-.1280	-.0130	-.0980			-.1450		-.0970	-.1530	-.1680	-.1920	-.1190
55.000			.5720	.0240	.1720	.2240			.1960		.1270				
70.000			.5890	.0760	.2300	.2940			.2430		.1150	-.3180	-.2420	-.0780	-.0480
90.000		1.1090	.5490	.0880	.2910	.3410			.2720		.0890	-.4000	-.3230	-.0840	-.0740
120.000			.4790	.1770	.3640	.4900			.3690		.0240	-.4400	-.2650	-.1290	-.0950
142.000										-.2620					
150.000			.3880	.1960	.3660	.7190			.4900		-.3110	-.2770	-.2690	-.2060	-.1160
157.000								.7590							
162.000									.3990						
165.000											-.4470	-.2360	-.2560	-.1930	-.1080
169.000									.2460						
172.000							.9230								
180.000	1.2500	.8100	.1610	.1320	.2690	.7620			.5120		-.7740	-.3910	-.4830	-.4250	-.3950

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1560							.0050		-.0970
40.000	.2660	.3950		-.0320	.0070	-.4440	-.3270			-.1280
70.000		.0330	-.1060	.0870	.1910	-.0130	-.1210	-.0030		
90.000		.0550	-.0340	.1930	.1380	-.0320	-.1440	-.0470		
105.000				.2610	.1020	-.0520	-.1360	-.0690		
110.000									-.1380	
120.000		.0140	.2020	.5480	.0380	-.1340	-.0050	-.0190	-.1040	
135.000				.5150	.2300	-.1200	.1040	.0680		
150.000		.0190	.2570	.3060	.1100	.1160	.1790	.0630		
165.000		.0620		.3710	.3430	.2100	.2200	-.1660		
180.000		-.1380	.1300	.2180						

MACH (3) = 1.097 BETAT (2) = -6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	.7990	.0000	-.4910	-.2380	.1460			.1110		-.0260	-.1210	-.2170	-.3460	-.2550
20.000			.2670	-.3530	-.1810	.0920			.1120		-.0230				
40.000			.4260	-.2040	-.0150	.0000			.0100		-.0900	-.1460	-.1750	-.2270	-.1520
55.000			.4910	-.0900	.1360	.1930			.1920		.0700				
70.000			.4980	-.0490	.1710	.2480			.2180		.0440	-.3420	-.2790	-.1010	-.0600
90.000		1.0440	.4630	-.0420	.2460	.2840			.2310		.0050	-.4170	-.3570	-.1080	-.0740
120.000			.4170	.0990	.3280	.4460			.2970		-.0590	-.4570	-.2820	-.1550	-.0730
142.000										-.3790					
150.000			.3570	.1590	.3590	.7040			.4650		-.3450	-.2780	770	-.2110	-.0980
157.000								.7290							
162.000									.3740						
165.000											-.5540	-.2550	-.2740	-.1990	-.0960
169.000									.2560						
172.000							.9360								
180.000	1.2620	.8160	.1700	.1380	.2960	.7920			.5270		-.7390	-.4070	-.4680	-.2650	-.2500

X/LB	.5673	.6125	.7380	.7669	.8283	.9848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1480							-.0210		-.1020
40.000	.2480	.3490		-.0930	-.0640	-.4680	-.2880			-.1690
70.000		.0130	-.0890	.0760	.1590	-.0470	-.1490	-.0780		
90.000		.0450	.0200	.1680	.1030	-.0630	-.1630	-.0860		
105.000				.2270	.0540	-.0820	-.1440	-.1050		
110.000									-.2510	
120.000		.0440	.2360	.4810	-.0080	-.1600	-.0370	-.0590	-.1640	
135.000				.5790	.2500	-.0990	.0590	.0270		
150.000		.0430	.2840	.3580	.1800	.0460	.1240	.0220		
165.000		.0620		.4000	.3630	.1530	.1580	-.2100		
180.000		-.0170	.1950	.2990						

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2870	.8080	.0000	-.4910	-.2560	.1450			.1380		.0040	-.1000	-.1930	-.3050	-.0610
20.000			.2470	-.3720	-.2190	.1020			.1390		-.0040				
40.000			.3720	-.2490	.0060	-.0710			.0580		-.0700	-.1420	-.1820	-.2380	-.1510
55.000			.4190	-.1820	.1210	.0090			.1750		.0240				
70.000			.4190	-.1590	.1460	.1290			.1890		-.0180	-.3700	-.3160	-.1280	-.0550
90.000		.9830	.3830	-.1460	.2110	.2090			.1830		-.0590	-.4390	-.3690	-.1350	-.0680
120.000			.3560	.0220	.2940	.3690			.2130		-.1430	-.4840	-.2940	-.1330	-.0590

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB05)

MACH (3) = 1.101 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5480					
150.000			.3290	.1220	.3540	.6810			.4370		-.3920	-.3050	-.2840	-.1880	-.0720
157.000								.6910							
162.000									.3450						
165.000											-.6900	-.2920	-.2900	-.1840	-.0790
169.000									.2670						
172.000							.9460								
180.000	1.2870	.8410	.1060	.1490	.3270	.8150			.5440		-.7300	-.4320	-.3650	-.2130	-.1230

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2030							-.0250		-.0950
40.000	.2260	.2960		-.1590	-.1320	-.4800	-.2620			-.1760
70.000		.0160	-.0440	.0770	.1320	-.0680	-.1590	-.1020		
90.000		.0440	.0760	.1530	.0700	-.0830	-.1670	-.1090		
105.000				.1970	.0300	-.0830	-.1540	-.1290		
110.000									-.2870	
120.000		.0420	.2580	.3930	-.0520	-.1730	-.0720	-.0820	-.1870	
135.000				.6410	.2650	-.1490	.0200	-.0030		
150.000		.0350	.3120	.4010	.2470	-.0080	.0840	-.0170		
165.000		.0470		.4310	.4120	.1020	.1060	-.2380		
180.000		-.0110	.2520	.3510						

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.8210	.0000	-.5000	-.2420	.1740			.1460		.0190	-.0920	-.1790	-.2840	-.0730
20.000			.2190	-.3990	-.2430	.1760			.1460		.0050				
40.000			.3100	-.3020	-.1170	.1190			.0890		-.0620	-.1370	-.1910	-.2620	-.1190
55.000			.3430	-.2550	.1310	-.0740			.1570		-.0130				
70.000			.3390	-.2550	.1620	.0560			.1600		-.0700	-.3970	-.3490	-.1620	-.0640
90.000		.9220	.3070	-.2310	.1970	.1450			.1430		-.1040	-.4610	-.4180	-.1610	-.0720
120.000			.2930	-.0690	.2640	.3380			.1480		-.2000	-.5090	-.3170	-.1570	-.0670
142.000										-.8150					
150.000			.2970	.0860	.3440	.6520			.4060		-.4310	-.3450	-.2030	-.1760	-.0710
157.000								.6440							
162.000									.3070						
165.000											-.7410	-.3220	-.2970	-.1750	-.0710
169.000									.2680						
172.000							.9410								

AMES 11-FOOT TAS OPT. A-24 W. ORBITER FUSELAGE (RBMBC3)

MACH (3) = 1.099 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2950	.8360	.1890	.1550	.3520	.8260			.5500		-.0190	-.5090	-.2680	-.1870	-.0930
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1980							-.0080		-.1010					
40.000	.1010	.2360		-.2150	-.1800	-.4730	-.2740			-.1840					
70.000		.0130	.0060	.0640	.0950	-.1000	-.1870	-.1180							
90.000		.0420	.1050	.1300	.0340	-.1030	-.1880	-.1350							
135.000				.1510	-.0290	-.1260	-.1780	-.1550							
110.000									-.3050						
120.000		.0490	.2770	.3490	-.1040	-.1950	-.1120	-.1170	-.2230						
135.000				.6740	.2640	-.2000	-.0440	-.0470							
150.000		.3630	.3220	.4210	.3020	-.0490	.0050	-.0670							
165.000		.1490		.4400	.4280	.0590	.0290	-.2700							
180.000		.0820	.2950	.1930											

MACH (3) = 1.101 BETAT (5) = 2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0079	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.6150	.0000	-.5060	-.2270	.1600			.1500		.0250	-.0930	-.1820	-.2800	-.0620
20.000			.1590	-.4520	-.2990	.0950			.1440		-.0010				
40.000			.1850	-.4080	-.2470	.1030			.1050		-.0640	-.1690	-.2480	-.3230	-.0310
55.000			.1830	-.4030	-.2120	-.0890			.1090		-.0840				
70.000			.1680	-.4160	-.0410	.0080			.1040		-.1690	-.4780	-.4360	-.1960	-.0650
90.000		.7730	.1420	-.3830	.1440	.0640			.0620		-.2290	-.5350	-.4900	-.1780	-.0720
120.000			.1700	-.2410	.1300	.2320			-.0180		-.3470	-.5870	-.3770	-.1840	-.0690
142.000										-.7010					
150.000			.2270	-.0060	.2670	.5670			.3210		-.5670	-.4650	-.2550	-.2100	-.0840
157.000								.5170							
162.000									.2090						
165.000											-.8040	-.4380	-.2170	-.1840	-.0990
169.000									.2530						
172.000							.9040								
180.000	1.2950	.8040	.1910	.1490	.3440	.8220			.5450		-.7170	-.5470	-.2650	-.1890	-.0850
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2000							-.0070		-.1110					
40.000	.1010	.1000		-.1980	-.2070	-.2350	-.2170			-.2080					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 1.-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB05)

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0360	.0970	.0650	.0560	-.1530	-.23.?	-.1910		
90.000		.0590	.1610	.1020	-.0010	-.1540	-.2330	-.2000		
105.000				.1080	-.0760	-.1770	-.2320	-.2200		
110.000									-.3490	
120.000		.0690	.2960	.1990	-.2120	-.2650	-.1980	-.1930	-.2930	
135.000				.7200	.2260	-.3170	-.2130	-.1750		
150.000		.0500	.3400	.5320	.3610	-.1090	-.1620	-.1790		
165.000		.0310		.4830	.4370	-.0470	-.0940	-.3810		
180.000		.0260	.2970	.3960						

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.?259	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.8010	.0000	-.5080	-.2470	.1490			.1350		.0080	-.0990	-.2020	-.3040	-.0040
20.000			.1250	-.4820	-.3090	.1480			.1260		-.0200				
40.000			.1220	-.4530	-.3060	.1210			.1000		-.0810	-.1950	-.2800	-.3680	.0350
55.000			.0890	-.4730	-.3080	-.0830			.0870		-.1160				
70.000			.0770	-.4920	-.2550	-.0090			.0730		-.2190	-.5060	-.4700	- 2040	-.0670
90.000		.6990	.0620	-.4540	-.0480	.0340			-.0060		-.2830	-.5650	-.5160	-.1920	-.0780
120.000			.1070	-.3170	.0340	.1770			-.0850		-.3940	-.6140	-.3960	-.2190	-.0890
142.000										-.7410					
150.000			.1880	-.0520	.2060	.5160			.2720		-.6530	-.5270	-.2610	-.2270	-.1170
157.000								.4490							
162.000									.1580						
165.000											-.8120	-.5140	-.2180	-.2280	-.1510
169.000									.2400						
172.000							.8710								
180.000	1.2850	.8300	.1890	.1400	.3240	.8070			.5320		-.7050	-.4250	-.3370	-.2180	-.1[illegible]

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2030							-.0360		-.1100
40.000	.1460	-.0200		-.1900	-.1980	-.2020	-.2180			-.2520
70.000		.0800	.1110	.0550	.0370	-.1790	-.2660	-.2290		
90.000		.1010	.1700	.0920	-.0270	-.1910	-.2640	-.2330		
105.000				.0680	-.1460	-.2130	-.2640	-.2480		
110.000									-.3720	
120.000		.1130	.2900	.1500	-.2720	-.3220	-.2380	-.2380	-.3250	
135.000				.6960	.1980	-.3820	-.3440	-.2550		
50.000		.0820	.2100	.4880	.3610	-.1167	-.2030	-.2590		

MACH (3) = 1.100 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
185.000		.0450		.4640	.4270	-.0950	- 1510	-.4170		
180.000		.0000	.2590	.3490						

MACH (3) = 1.100 BETAT (7) = 6.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3933	.5120
PHI															
.000	1.2670	.7910	.0000	-.5030	-.2120	.1340			.1160		-.0160	-.1220	-.2350	-.3460	-.2020
20.000			.0920	-.5040	-.1610	.1480			.1050		-.0530				
40.000			.0590	-.5050	-.3595	.1340			.0850		-.1140	-.2360	-.3250	-.4180	-.0140
55.000			.0180	-.5420	-.3940	-.0210			.0620		-.1540				
70.000			-.0210	-.5600	-.3880	-.0200			.0380		-.2540	-.5490	-.5160	-.2200	-.0560
90.000		-.0170	-.0280	-.5200	-.2430	.0100			-.0310		-.3350	-.6100	-.5570	-.2170	-.0820
120.000			.0290	-.3890	-.0540	.1200			-.1480		-.4930	-.6570	-.4000	-.2710	-.1150
142.000										-.7780					
150.000			.1300	-.1050	.1350	.4500			.2010		-.7190	-.5680	-.2980	-.2630	-.1320
157.000								.3600							
162.000									.0960						
165.000											-.8340	-.5730	-.2950	-.3270	-.2300
169.000									.2140						
172.000							.8160								
180.000	1.2670	.8040	.1700	.1210	.2910	.7740			.5060		-.7100	-.4200	-.4350	-.3550	-.2340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1860							-.0250		-.1100
40.000	.1220	-.0410		-.1780	-.2170	-.2390	-.2000			-.3200
70.000		.0900	.1060	.0380	.0220	-.1990	-.2870	-.2550		
90.000		.1070	.1610	.0750	-.0420	-.2170	-.2910	-.2640		
105.000				.0600	-.1830	-.2410	-.2900	-.2790		
110.000									-.3820	
120.000		.1070	.2630	.1000	-.3210	-.3720	-.2740	-.2870	-.3310	
135.000				.6820	.2070	-.4380	-.4490	-.3430		
150.000		.0230	.2180	.3540	.3030	-.1300	-.2520	-.3120		
165.000		.0290		.3600	.3700	-.1320	-.2030	-.4150		
180.000		-.0660	.1660	.2920						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBNB05)

MACH (3) = 1.100 BETAT (8) = 8.270

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2310	.7830	.0000	-.5010	-.1980	-.1180			.1190		-.0280	-.1450	-.2540	-.3370	-.2950
20.000			.0600	-.5210	-.2140	.0230			.0960		-.0800				
40.000			-.0030	-.5480	-.4180	.0350			.0720		-.1510	-.2680	-.3890	-.4820	-.0700
55.000			-.0580	-.6040	-.4630	-.0800			.0470		-.1760				
70.000			-.1120	-.6230	-.4560	-.0330			-.0050		-.2800	-.5810	-.5470	-.2340	-.0320
90.000		.5160	-.1110	-.5830	-.4010	-.0170			-.1400		-.3770	-.6360	-.5810	-.2410	-.0550
120.000			-.0390	-.4340	-.1430	.0550			-.2290		-.5660	-.6870	-.4060	-.3260	-.1210
142.000										-.8030					
150.000			.0860	-.1270	.0670	.3810			.1220		-.7490	-.5840	-.3740	-.2870	-.2200
157.000								.2940							
162.000									.0540						
165.000											-.8400	-.5350	-.4330	-.4180	-.3060
169.000									.1340						
172.000							.7570								
180.000	1.2310	.7680	.1580	.1140	.2590	.7350			.4780		-.7040	-.4190	-.4560	-.4210	-.3880

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1420							-.0080		-.0890
40.000	.0930	.0150		-.2470	-.2560	-.2590	-.2580			-.3000
70.000		.0950	.0990	.0320	.0290	-.2190	-.2960	-.2790		
90.000		.1070	.1480	.0760	-.0440	-.2320	-.3050	-.2890		
105.000				.0610	-.1950	-.2570	-.3060	-.3040		
110.000									-.3890	
120.000		.1110	.2390	.0990	-.3440	-.3980	-.3080	-.3290	-.3670	
135.000				.5820	.2290	-.4730	-.5000	-.4730		
150.000		-.1090	.1020	.2350	.1960	-.1540	-.2870	-.3700		
165.000		-.0300		.2770	.2790	-.1930	-.2630	-.4160		
180.000		-.1830	.1150	.2200						

MACH (4) = 1.245 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3020	.8920	.0000	-.2710	-.0530	-.2510			-.2500		.1760	.0810	-.0420	-.1960	-.3230
20.000			.4500	-.1250	-.0450	-.2350			-.1760		-.0320				
40.000			.6460	.0740	.1440	-.2130			-.2090		-.0540	-.0820	.0160	-.0840	-.2370
55.000			.7270	.2100	.2970	.1010			.1850		.1850				
70.000			.7320	.2300	.3270	.2210			.2000		.1690	-.0830	-.0240	.1010	-.0110
90.000		1.1910	.6730	.2000	.3650	.3440			.3780		.1220	-.2260	-.0870	-.0170	.0120
125.000			.5720	.2230	.4030	.3240			.4410		.0000	-.2740	-.1220	-.0650	-.0110

AMES 11-707 IA9 O2A [illegible] ORBITER FUSELAGE (RSHB03)

MACH (4) = 1.245 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
142.000										-.1440					
150.000			.4660		.3790	.7700			.6910		-.2130	-.1760	-.1830	-.1510	-.0750
157.000								.8410							
162.000									.5060						
165.000											-.3440	-.1600	-.1620	-.1290	-.0590
169.000									.3540						
172.000							.9870								
180.000	1.3020	.8690	.2410	.1480	.2730	.8090			.5970		-.5690	-.2910	-.3430	-.3310	-.3440
X/LB	.5375	.6626	.7380	.7807	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
								.0420		-.0980					
.067	-.0610									.0300					
40.000	-.1340	.4390		.0660	.0460	-.2660	-.5460								
70.000		-.0860	-.0350	-.0730	.1630	.0420	-.0370	-.0430							
90.000		-.0740	-.0310	.1440	.0800	.0450	-.0670	-.0630							
105.000				.2290	.1060	.0430	-.0960	-.0680							
110.000									-.1250						
120.000		-.0910	-.0060	.5840	.1290	-.0650	-.0890	.0550	-.0340						
135.000				.4690	.2640	-.1830	.1520	.1380							
150.000		-.1020	.1140	.2290	.1270	.0950	.2500	.1690							
165.000		-.0770		.3150	.3960	.2430	.2950	-.0400							
180.000		-.2970	-.0370	.1300											

MACH (4) = 1.245 BETAT (2) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	1.3260	.9230	.0000	-.2720	-.0700	-.2010			-.1730		.2000	.0770	-.0830	-.1920	-.2880
20.000			.4330	-.1490	-.0400	-.2050			-.1610		.1850				
40.000			.5920	.0120	.1270	-.1990			-.1880		-.0800	.0090	-.0100	-.1110	-.1430
55.000			.6520	.1100	.2630	.0790			.1140		.1350				
70.000			.6500	.1340	.3010	.1960			.1660		.0560	-.2170	-.1360	-.0280	-.0275
90.000		1.1330	.5970	.0980	.3580	.2950			.2420		-.0080	-.2580	-.2410	-.0390	-.0380
120.000			.5150	.1220	.3830	.5000			.3910		-.0590	-.3420	-.2010	-.0670	-.0430
142.000										-.2700					
150.000			.4410	.1570	.3760	.7650			.5720		-.2490	-.2310	-.1560	-.0480	-.0860
157.000								.8200							
162.000									.4870						
165.000											-.4480	-.1940	-.1140	-.0730	-.0880
169.000									.3690						
172.000							1.0060								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM005)

MACH (4) = 1.245 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3260	.8480	.2530	.1290	.3040	.8430			.6130		-.5550	-.3080	-.3480	-.2060	-.2380
X/LB	.5873	.6625	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.1010							.0270		-.0810					
40.000	-.1110	.3830		.0300	.0090	-.2800	-.3990			.0100					
70.000		-.1040	-.0710	-.0370	.1390	.0160	-.0630	-.0570							
90.000		-.0820	-.0260	.1270	.0630	.0190	-.0850	-.0950							
105.000				.1950	.0780	.0170	-.1090	-.0760							
110.000									-.1390						
120.000		-.0850	.0550	.5130	.0880	-.0980	-.0650	.0290	-.0610						
135.000				.5350	.2885	-.1710	.1200	.1220							
150.000		-.0800	.1380	.2700	.1790	.0870	.2050	.1270							
165.000		-.0600		.3330	.3910	.2210	.2370	-.0350							
180.000		-.1990	.0530	.1570											

MACH (4) = 1.245 BETAT (3) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3420	.9450	.0000	-.2810	-.0840	-.1470			-.1260		.2080	.0840	-.3400	-.1700	-.3720
20.000			.4070	-.1650	-.0530	-.1810			-.1060		.1860				
40.000			.3280	-.0430	.0760	-.2020			-.1450		-.0890	.0080	-.0130	-.0320	-.327
55.000			.5700	.0230	.1890	.0540			.0160		.3950				
70.000			.5650	.0250	.2130	.1710			.1270		-.0280	-.0360	-.0780	-.0870	-
90.000		1.0680	.5150	.0130	.3750	.2670			.2010		-.0510	-.0760	-.0760	-.0890	-
120.000			.4620	.0360	.3640	.4710			.3280		-.0140	-.0340	-.0190	-.0270	-
142.000										-.3630					
150.000			.4262	.1100	.3760	.7550			.5490		-.0750	-.0440	-.0240	.0220	
157.000								.7920							
162.000									.4600		-.0490	-.0180	-.0260	-.0180	-.027
169.000									.3770						
172.000							1.0170								
180.000	1.3420	.8650	.2690	.1100	.3310	.6720			.6290		-.6100	-.3100	-.3500	-.2080	-.2400
X/LB	.5873	.6626	.7381	.7860	.8295	.8848	.9262	.9639	1.0017	1.0393					
PHI															
.000	-.0810							.0130		-.0090					
40.000	-.1110	.3390		.0130	-.0530	-.3100	-.4290			.0100					

AMES 11-707 IA9 02A + 03 - - ORBITER FUSELAGE (RBMB05)

MACH (4) = 1.245 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1110	-.0590	-.0070	.1120	-.0070	-.0790	-.0730		
90.000		-.0860	-.0050	.1060	.0530	-.0060	-.1030	-.0850		
105.000				.1680	.0510	-.0070	-.1220	-.0850		
110.000									-.1590	
120.000		-.0690	.0930	.4130	.0490	-.1270	-.0530	-.0070	-.0880	
135.000				.6100	.3070	-.1560	.0580	.0710		
150.000		-.0540	.1510	.3050	.2530	.0670	.1290	.0680		
165.000		-.0470		.3640	.4460	.1890	.1730	-.1330		
180.000		-.1030	.1050	.2590						

MACH (4) = 1.246 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3570	.9020	.0000	-.2910	-.0810	-.0380			-.0910		.2160	.0770	-.0270	-.1490	-.2450
20.000			.3780	-.1910	-.0660	-.1350			-.0690		.1540				
40.000			.4680	-.0990	.0350	-.1800			-.0360		.0210	.0130	-.0390	-.1350	-.1650
55.000			.4960	-.0550	.1000	.0450			-.0060		.0450				
70.000			.4840	-.0550	.1130	.1580			.1060		-.0720	-.2720	-.2270	-.0840	-.0470
90.000		1.0060	.4360	-.0580	.1940	.2470			.1720		-.1050	-.3300	-.2990	-.0800	-.0540
120.000			.4110	-.0170	.3400	.4440			.2730		-.1600	-.4010	-.2470	-.1210	-.0510
142.000										-.4010					
150.000			.3920	.0510	.3700	.7380			.5240		-.2880	-.2880	-.2380	-.1490	-.0580
157.000								.7540							
162.000									.4290						
165.000											-.5370	-.2450	-.2350	-.1420	-.0800
169.000									.3820						
172.000							1.0170								
180.000	1.3570	.8800	.2810	.1050	.3640	.8910			.6370		-.5120	-.3960	-.2270	-.1770	-.0720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0150							.0290		-.1020
40.000	-.1090	.2670		-.0780	-.1220	-.3190	-.2600			-.0600
70.000		-.1100	-.0440	.0130	.1010	-.0260	-.0980	-.0850		
90.000		-.0820	.0150	.1050	.0420	-.0210	-.1160	-.0890		
105.000				.1360	.0320	-.0220	-.1290	-.0920		
110.000									-.1750	
120.000		-.0800	.1380	.3880	.0110	-.1380	-.0510	-.0440	-.1130	
135.000				.6590	.3260	-.1320	-.0050	.0240		
150.000		-.0420	.1650	.3330	.3300	.0500	.0610	.0090		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB05)

MACH (4) = 1.246 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0360		.3830	.4820	.1690	.1210	-.1770		
180.000		-.0440	.0360	.3460						

MACH (4) = 1.243 BETAT (5) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3550	.9230	.0000	-.3260	-.0940	.0150			-.0980		.2170	.0730	-.0310	-.1470	-.2560
20.000			.2620	-.2980	-.1230	.0260			-.0730		.1840				
40.000			.3140	-.2390	-.1030	-.0980			-.0580		-.0130	-.0370	-.1010	-.1690	-.2240
55.000			.3110	-.2400	-.1040	.0410			.0280		-.0500				
70.000			.2940	-.2400	-.1330	.1390			.1330		-.1180	-.3590	-.3160	-.1450	-.0570
90.000		.8550	.2660	-.2210	-.1070	.2030			.1120		-.2110	-.4040	-.3790	-.1240	-.0580
120.000			.2670	-.1390	.1480	.3570			.1380		-.2580	-.4800	-.3240	-.1760	-.0580
142.000										-.4810					
150.000			.3120	-.0200	.2710	.6580			.4380		-.4100	-.3590	-.2540	-.1790	-.0540
157.000								.6240							
162.000									.3280						
165.000											-.5920	-.3370	-.2010	-.1740	-.0690
169.000									.3700						
172.000							.9770								
180.000	1.3550	.8870	.2790	.1110	.3480	.8910			.6320		-.5100	-.4030	-.2200	-.1740	-.0710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0080							.0350		-.0870
40.000	.0270	.1300		-.1700	-.1660	-.3600	-.2210			-.1690
70.000		-.0970	.0030	.0420	.0700	-.0690	-.1310	-.1170		
90.000		-.0780	.0610	.0830	.0270	-.0640	-.1490	-.1210		
105.000				.0850	-.0240	-.0720	-.1490	-.1310		
110.000									-.2220	
120.000		-.0340	.1700	.2460	-.1000	-.2420	-.1110	-.1250	-.1810	
135.000				.7900	.3060	-.2010	-.1720	-.1270		
150.000		-.0450	.0920	.3830	.4220	.0080	-.0650	-.1120		
165.000		-.0620		.4860	.5300	.0800	.0070	-.2760		
180.000		-.0480	.0390	.3650						

AMES 11-7?7 IA9 O2A + 33 + 0 ORBITER FUSELAGE (RBMB05)

MACH (4) = 1.241 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3380	.9360	.0000	-.2850	-.0890	-.1380			-.1310		.2120	.0760	-.0480	-.1660	-.2820
20.000			.2740	-.2870	-.1370	-.0630			-.1130		.1730				
40.000			.2590	-.2640	-.1480	-.0640			-.0780		.0570	-.0890	-.1410	-.2210	-.2530
55.000			.2290	-.2960	-.1790	.0290			.0090		-.0460				
70.000			.2030	-.3150	-.2250	.1240			.0400		-.1830	-.3750	-.3430	-.1620	-.0640
90.000		.7680	.1810	-.2890	-.1840	.1740			.0620		-.2500	-.4500	-.3990	-.1360	-.0630
120.000			.2050	-.1950	.0760	.3010			.0680		-.3020	-.5050	-.3760	-.1990	-.0690
142.000										-.5220					
150.000			.2690	-.0400	.2210	.6020			.3810		-.4770	-.3890	-.2400	-.2050	-.0590
157.000								.5480							
162.000									.2730						
165.000											-.6060	-.3950	-.1900	-.2110	-.1330
169.000									.3540						
172.000							.9370								
180.000	1.3360	.8750	.2690	.1260	.3360	.8670			.6110		-.5110	-.3680	-.2740	-.1800	-.1200

X/LB	.5873	.6526	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0400							.0250		-.0960
40.000	.0890	.0360		-.1840	-.1620	-.2410	-.1880			-.1960
70.000		-.0730	.0180	.0520	.0600	-.0930	-.1440	-.0860		
90.000		-.0640	.0720	.0780	.0280	-.0890	-.1710	-.1240		
105.000				.0700	-.0810	-.1060	-.1520	-.1070		
110.000									-.2180	
120.000		-.0750	.1560	.2090	-.1570	-.2960	-.1460	-.1220	-.1830	
135.000				.7180	.2830	-.2510	-.2540	-.1750		
150.000		-.0560	.0810	.3210	.3980	.0120	-.0920	-.1550		
165.000		-.0990		.3550	.4720	.0450	-.0440	-.2920		
180.000		-.0930	.0920	.2780						

MACH (4) = 1.244 BETAT (7) = 6.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3180	.9250	.0000	-.2800	-.0570	-.2010			-.1800		.2200	.0980	-.0490	-.1870	-.3090
20.000			.2500	-.2820	-.1530	-.1490			-.1460		.1810				
40.000			.2040	-.3030	-.1910	-.0520			-.0940		.0700	-.0790	-.1730	-.2740	-.2870
55.000			.1550	-.3490	-.2470	.0260			-.0090		-.0640				
70.000			.1170	-.3710	-.2920	.1140			.0320		-.2160	-.3800	-.3630	-.1840	-.0850
90.000		.6890	.1000	-.3480	-.2530	.1570			.0340		-.2670	-.4750	-.4010	-.1570	-.0700
120.000			.1390	-.2440	-.0040	.2550			.0090		-.3330	-.5140	-.3970	-.2190	-.0870

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB05)

MACH (4) = 1.244 BETAT (7) = 6.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5560					
150.000			.2220	-.0620	.1600	.5410			.3120		-.5070	-.4100	-.2530	-.2280	-.0920
157.000								.4720							
162.000									.2230						
165.000											-.6060	-.4270	-.2160	-.2680	-.2090
169.000									.3330						
172.000							.8850								
180.000	1.3160	.8520	.2430	.1300	.2950	.8290			.5890		-.9020	-.3070	-.3230	-.1970	-.2140

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0382
PHI										
.000	-.0320							.0340		-.0740
40.000	.0220	-.0240		-.1250	-.1970	-.2480	-.2280			-.2260
70.000		-.0540	.0750	.1040	.0880	-.0750	-.1550	-.1450		
90.000		-.0480	.1150	.0980	.0550	-.0880	-.1740	-.1520		
105.000				.1260	-.0680	-.1100	-.1670	-.1670		
110.000									-.2600	
120.000		-.0840	.1830	.2050	-.1740	-.2910	-.1560	-.1700	-.2280	
135.000				.7300	.3210	-.2660	-.2850	-.2710		
150.000		-.1270	.0530	.2480	.3370	.0210	-.0940	-.1070		
165.000		-.1360		.3150	.4300	.0320	-.0640	-.3060		
180.000		-.2060	.0300	.1800						

MACH (4) = 1.247 BETAT (8) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2880	.8830	.0000	-.2770	-.0540	-.2490			-.2480		.1780	.0840	-.0450	-.1710	-.3240
20.000			.2070	-.3070	-.0990	-.2630			-.1820		.1460				
40.000			.1320	-.3490	-.2590	-.1060			-.1060		.0510	-.1010	-.2210	-.3280	-.2330
55.000			.0750	-.4070	-.3150	.0350			-.0240		-.1010				
70.000			.0280	-.4310	-.3610	.1180			.0180		-.2310	-.4240	-.3990	-.1980	-.0670
90.000		.6300	.0240	-.4050	-.3210	.1510			.0100		-.3020	-.5070	-.4330	-.1770	-.0770
120.000			.0780	-.2890	-.0810	.2120			-.0550		-.3770	-.5420	-.3890	-.2570	-.1090
135.000										-.5780					
150.000			.1790	-.0630	.1040	.4650			.2460		-.5560	-.4470	-.2680	-.2350	-.2220
157.000								.4090							
162.000									.1940						
165.000											-.6140	-.4490	-.2850	-.3310	-.3380
169.000									.3180						
172.000							.8210								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM805)

MACH (4) = 1.247 BETAT (8) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2880	.8400	.0340	.1440	.2560	.7870			.5670		-.5350	-.3100	-.3090	-.3160	-.3400
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.0570							.0550		-.0840					
40.000	-.0130	-.0340		-.2260	-.2440	-.2420	-.2080			-.2690					
70.000		.0130	.0280	.0590	.0830	-.0950	-.1690	-.1790							
90.000		-.0030	.0790	.1050	.0130	-.1160	-.1820	-.1750							
105.000				.0790	-.1130	-.1540	-.1780	-.1840							
110.000									-.2730						
120.000		-.0110	.1410	.1610	-.2180	-.3390	-.2000	-.2110	-.2480						
135.000				.6000	.3150	-.2910	-.3190	-.3510							
150.000		-.2220	-.0230	.1660	.1930	-.0600	-.1710	-.2360							
165.000		-.1490		.2340	.3330	-.0630	-.1390	-.3270							
180.000		-.3050	-.0900	.1380											

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB06) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .599 BETAT (1) = -8.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0150	.3970	.0000	-.7650	-.2310	-.1730			-.1870		-.2050	-.1960	-.1610	-.1290	-.0700
20.000			-.2490	-.6430	-.2620	-.1760			-.1740		-.1920				
40.000			.0640	-.3510	-.1340	-.2160			-.2170		-.2290	-.1770	-.1000	-.0260	.0510
55.000			.2230	-.1470	.0640	.0700			.0440		-.0270				
70.000			.2740	-.0550	.0980	.1120			.0620		-.0520	-.3270	-.0520	.0200	.0230
90.000		.8510	.2560	-.0240	.1530	.1340			.0670		-.0800	-.3900	-.0610	-.0090	-.0070
120.000			.2160	.0530	.2090	.2290			.1220		-.2160	-.2860	-.0880	-.0470	-.0330
142.000										-.3250					
150.000			.1170	.0450	.1920	.4170			.0010		-.5700	-.2070	-.1070	-.0690	-.0470
157.000								.3900							
162.000									-.1110						
165.000											-.4090	-.1710	-.0870	-.0500	-.0310
169.000									-.2720						
172.000							.5760								
180.000	1.0150	.4690	-.1350	-.0400	.0830	.4390			.0580		-.6140	-.2700	-.2680	-.2470	-.2390

X/LB	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0070							-.1210		-.0260
40.000	.1040	.0950		-.3020	-.4610	-.2950	-.1490			-.1370
70.000		-.1120	-.0990	-.0340	.0900	.0290	.0170	-.0400		
90.000		-.0710	-.0130	.0480	.0720	-.0190	-.0320	-.0750		
105.000				.1300	.0260	-.0210	-.0490	-.1060		
110.000									-.2260	
120.000		-.0490	.1200	.3250	-.0780	-.0810	-.0390	-.0640	-.1550	
135.000				.2810	-.0010	-.1220	-.0710	-.1320		
150.000		-.0110	.0960	.1050	-.1100	-.0650	-.0500	-.1750		
165.000		-.0 60		.1560	.1350	.0260	-.0390	-.2840		
180.000		-.1710	-.0810	-.0380						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (1) = .599 BETA(2) = -6.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0510	.4450	.0000	-.7270	-.1870	-.1330			-.1490		-.1590	-.1530	-.1140	-.0840	-.0310
20.000			-.2530	-.6190	-.2090	-.1330			-.1390		-.1540				
40.000			.0020	-.3800	-.1270	-.1660			-.1720		-.2000	-.1570	-.0810	-.0270	.0500
55.000			.1310	-.2140	.0280	.0410			.0120		-.0540				
70.000			.1710	-.1430	.0480	.0740			.0210		-.0870	-.3490	-.0700	.0100	.0180
90.000		.7870	.1610	-.1070	.1160	.0940			.0220		-.1170	-.4100	-.0750	-.0060	-.0120
120.000			.1510	.0010	.1770	.1910			.0570		-.2300	-.2790	-.0920	-.0390	-.0250
142.000										-.3580					
150.000			.0890	.0340	.1860	.4070			-.0330		-.5400	-.1960	-.0990	-.0530	-.0310
157.000								.3590							
162.000									-.1450						
165.000											-.4200	-.1720	-.0840	-.0430	-.0270
169.000									-.2600						
172.000							.3980								
180.000	1.0510	.3930	-.1130	-.0130	.1090	.4770			.0850		-.5790	-.2260	-.2260	-.1470	-.1360

X/LB	.5673	.6626	.7380	.7959	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0200							-.1090		.0020
40.000	.0860	.0530		-.2910	-.4180	-.2560	-.1290			-.1340
70.000		-.1180	-.1120	-.0600	.0630	.0060	.0040	-.0500		
90.000		-.0720	-.0260	.0170	.0330	-.0370	-.0450	-.0840		
105.000				.0830	-.0110	-.0380	-.0660	-.1130		
110.000									-.2200	
120.000		-.0400	.1210	.2620	-.1400	-.1090	-.0510	-.0790	-.1610	
135.000				.3290	.0100	-.1350	-.0750	-.1330		
150.000		-.0120	.1080	.1490	-.0710	-.0870	-.0750	-.1920		
165.000		-.0030		.1690	.1480	-.0120	-.0730	-.2780		
180.000		-.1200	-.0230	.0190						

MACH (1) = .598 BETAT (3) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0690	.4580	.0000	-.7000	-.1560	-.1020			-.1170		-.1340	-.1180	-.0860	-.0480	-.0010
20.000			-.2770	-.6030	-.1780	-.1040			-.1100		-.1350				
40.000			-.0680	-.4120	-.1230	-.1340			-.1420		-.1820	-.1480	-.0730	-.0160	.0430
55.000			.0260	-.2900	-.0120	.0050			-.0230		-.0880				
70.000			.0590	-.2260	-.0030	.0310			-.0170		-.1250	-.3730	-.0890	-.0030	.0050
90.000		.7060	.0460	-.1920	.0580	.0480			-.0190		-.1480	-.4270	-.0915	-.0190	-.0170
120.000			.0720	-.0550	.1320	.1400			-.0230		-.2500	-.2890	-.0880	-.0340	-.0190

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBM806)

MACH (1) = .598 BETAT (3) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.3930					
150.000			.0620	.0160	.1750	.3820			-.0740		-.5140	-.1940	-.0940	-.0450	-.0220
157.000								.3160							
162.000									-.1860						
165.000											-.4420	-.1760	-.0860	-.0440	-.0230
169.000									-.2660						
172.000							.6110								
180.000	1.0890	.5140	-.0850	.0070	.1380	.5090			.1130		-.5640	-.1950	-.1910	-.0880	-.0560

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9439	1.0015	1.0392
PHI										
.000	.0450							-.0900		.0390
40.000	.0710	.0260		-.2710	-.3660	-.2260	-.1050			-.1340
70.000		-.1230	-.1340	-.0860	.0270	-.0190	-.0130	-.0580		
90.000		-.0750	-.0470	-.0250	-.0060	-.0640	-.0640	-.0950		
105.000				.0240	-.0620	-.0610	-.0850	-.1270		
110.000									-.2390	
120.000		-.0350	.1080	.1810	-.2230	-.1410	-.0800	-.0950	-.1680	
135.000				.3720	-.0010	-.1350	-.0940	-.1450		
150.000		-.0050	.1170	.1920	-.0370	-.1190	-.1140	-.2020		
165.000		-.0020		.1860	.1500	-.0540	-.1260	-.2700		
180.000		-.0400	.0320	.0810						

MACH (1) = .600 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0183	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0830	.4900	.0000	-.6870	-.1430	-.0880			-.1000		-.1180	-.1000	-.0680	-.0270	.0170
20.000			-.3060	-.6130	-.1510	-.0930			-.0980		-.1220				
40.000			-.1500	-.4650	-.1240	-.1160			-.1230		-.1740	-.1440	-.0700	-.0210	.0340
55.000			-.0820	-.3750	-.0500	-.0270			-.0580		-.1200				
70.000			-.0580	-.3220	-.0480	-.0050			-.0600		-.1600	-.4050	-.1050	-.0180	.0000
90.000		.6711	-.0680	-.2850	.0120	-.0010			-.0710		-.1840	-.4470	-.1040	-.0280	-.0130
120.000			-.0180	-.1270	.0790	.0830			-.1110		-.2670	-.2960	-.0930	-.0380	-.0160
142.000										-.4420					
150.000			.0120	-.0160	.1500	.3470			-.1350		-.4980	-.1950	-.0900	-.0450	-.0190
157.000								.2560							
162.000									-.2530						
165.000											-.4560	-.1730	-.0870	-.0430	-.0220
169.000									-.2860						
172.000							.6110								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (1) = .600 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0830	.5290	-.0820	.0150	.1540	.5250			.1230		-.5560	-.1750	-.1480	-.0570	-.0290
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0490							-.0820		.0510					
40.000	.0330	-.0180		-.2620	-.3420	-.1940	-.0990			-.1410					
70.000		-.1300	-.1480	-.1120	-.0050	-.0420	-.0300	-.0700							
90.000		-.0830	-.0600	-.0990	-.0490	-.0880	-.0810	-.1070							
109.000				-.0350	-.1100	-.0900	-.1060	-.1380							
110.000									-.2480						
120.000		-.0360	.0570	.0850	-.3080	-.1730	-.1000	-.1140	-.1760						
135.000				.4040	-.0230	-.1920	-.1210	-.1560							
150.000		.0090	.1250	.2250	-.0060	-.1620	-.1520	-.2210							
165.000		.0000		.1980	.1560	-.1120	-.1700	-.2730							
180.000		-.0040	.0720	.1130											

MACH (1) = .600 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1953	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0860	.4670	.0000	-.6930	-.1410	-.0820			-.0920		-.1090	-.0980	-.0620	-.0190	.0230
20.000			-.3510	-.6320	-.1500	-.0940			-.0950		-.1220				
40.000			-.2440	-.5190	-.1350	-.1010			-.1130		-.1760	-.1480	-.0720	-.0300	.0240
55.000			-.1960	-.4570	-.0870	-.0580			-.0910		-.1470				
70.000			-.1650	-.4030	-.1000	-.0500			-.0980		-.1880	-.4280	-.1150	-.0230	-.0070
90.000		.5290	-.1970	-.3750	-.0540	-.0510			-.1210		-.2140	-.4570	-.1130	-.0340	-.0210
120.000			-.1120	-.1980	.0190	.0240			-.1970		-.2870	-.3000	-.0980	-.0380	-.0140
142.000										-.4880					
150.000			-.0290	-.0520	.1180	.3000			-.1940		-.4790	-.2020	-.0940	-.0460	-.0170
157.000								.1820							
162.000									-.3190						
165.000											-.4710	-.1750	-.0900	-.0470	-.0270
169.000									-.2980						
172.000							.5960								
180.000	1.0860	.5390	-.0760	.0240	.1580	.5340			.1320		-.5490	-.1630	-.1300	-.0520	-.0230
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0560							-.0880		.0390					
40.000	.0330	-.0370		-.2650	-.3030	-.1870	-.0910			-.1550					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBM806)

MACH (1) = .600 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1300	-.1590	-.1430	-.0410	-.0690	-.0530	-.0840		
90.000		-.0850	-.0780	-.0990	-.0900	-.1130	-.1010	-.1170		
105.000				-.0990	-.1470	-.1400	-.1250	-.1530		
110.000									-.2530	
120.000		-.0320	.0830	-.0060	-.4010	-.2140	-.1270	-.1350	-.1800	
135.000				.4120	-.0580	-.2470	-.1630	-.1810		
150.000		-.0010	.1250	.2600	.0200	-.2150	-.1940	-.2420		
165.000		-.0020		.2150	.1520	-.1760	-.2170	-.2770		
180.000		.0050	.0810	[illegible]						

MACH (1) = .601 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0780	.4620	.0000	-.6970	-.1480	-.0940			-.0990		-.1190	-.1040	-.0730	-.0280	.0120
20.000			-.3980	-.6510	-.1490	-.0970			-.1040		-.1390				
40.000			-.3340	-.5660	-.1530	-.1060			-.1140		-.1860	-.1610	-.0840	-.0410	.0070
55.000			-.3090	-.5470	-.1280	-.0890			-.1170		-.1690				
70.000			-.3200	-.4950	-.1400	-.0860			-.1360		-.2150	-.4440	-.1250	-.0370	-.0140
90.000		.4240	-.3220	-.4580	-.1010	-.0990			-.1660		-.2450	-.4750	-.1220	-.0410	-.0260
120.000			-.2030	-.2790	-.0380	-.0420			-.2960		-.3080	-.3140	-.1100	-.0520	-.0220
142.000										-.5850					
150.000			-.0890	-.0980	.0760	.2410			-.2580		-.4740	-.2100	-.1090	-.0550	-.0250
157.000								.0940							
162.000									-.4080						
165.000											-.4750	-.1740	-.0990	-.0550	-.0350
169.000									-.3340						
172.000							.5660								
180.000	1.0780	.5370	-.0820	.0100	.1520	.5200			.1150		-.5600	-.1750	-.1370	-.0630	-.0350

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0500							-.0880		.0370
40.000	.0100	-.1020		-.2670	-.2910	-.1790	-.1090			-.1740
70.000		-.1350	-.1750	-.1700	-.0740	-.0930	-.0750	-.1010		
90.000		-.0910	-.0990	-.1440	-.1310	-.1400	-.1240	-.1340		
105.000				-.1460	-.1990	-.1440	-.1520	-.1680		
110.000									-.2630	
120.000		-.0450	.0630	-.0980	-.4880	-.2510	-.1580	-.1560	-.2050	
135.000				.3920	-.1080	-.3140	-.2130	-.2090		
150.000		-.0110	.1140	.3090	.0340	-.2660	-.2420	-.2570		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (1) = .601 BETAY (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0160		.2070	.1560	-.2590	-.2640	-.2720		
180.000		-.0130	.0740	.1110						

MACH (1) = .601 BETAT (7) = 4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1591	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0670	.4410	.0000	-.7130	-.1630	-.1090			-.1180		-.1370	-.1210	-.0910	-.0430	-.0040
20.000			-.4590	-.6770	-.1650	-.1130			-.1180		-.1520				
40.000			-.4450	-.6170	-.1750	-.1140			-.1320		-.2000	-.1650	-.0990	-.0530	-.0040
55.000			-.4420	-.6180	-.1630	-.1150			-.1470		-.1990				
70.000			-.4550	-.5940	-.1790	-.1230			-.1650		-.2360	-.4410	-.1340	-.0950	-.0120
90.000		.3120	-.4520	-.5510	-.1530	-.1440			-.2090		-.2690	-.4660	-.1290	-.0420	-.0270
120.000			-.3030	-.3580	-.1030	-.1080			-.3810		-.3170	-.3200	-.1200	-.0560	-.0290
142.000										-.7500					
150.000			-.1420	-.1440	.0300	.1720			-.3180		-.4660	-.2200	-.1130	-.0620	-.0290
157.000								-.0040							
162.000									-.4930						
165.000											-.4850	-.1870	-.1100	-.0710	-.0660
169.000									-.3660						
172.000							.5210								
180.000	1.0670	.5310	-.0720	.0020	.1380	.4940			.0930		-.5480	-.1900	-.1620	-.0890	-.0630

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0390							-.1010		-.0290
40.000	-.0030	-.1140		-.2070	-.2080	-.1460	-.1080			-.2640
70.000		-.1350	-.1860	-.1920	-.1020	-.1180	-.0940	-.1180		
90.000		-.0930	-.1180	-.1770	-.1600	-.1670	-.1480	-.1490		
105.000				-.1910	-.2400	-.1970	-.1760	-.1810		
110.000									-.2740	
120.000		-.0550	.0340	-.1990	-.6000	-.2920	-.1850	-.1790	-.2250	
135.000				.3910	-.1720	-.3870	-.2630	-.2440		
150.000		-.0150	.0900	.2870	.0420	-.3120	-.2770	-.2820		
165.000		-.0430		.1990	.1400	-.3400	-.3210	-.2790		
180.000		-.0460	.0360	.0840						

DATE 15 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (1) = .599 BETAT (8) = 6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0320	.4180	.0000	-.7230	-.1900	-.1380			-.1470		-.1670	-.1500	-.1190	-.0740	-.0400
20.000			-.5070	-.7120	-.1930	-.1360			-.1470		-.1910				
40.000			-.5400	-.6740	-.2080	-.1350			-.1490		-.2220	-.1900	-.1180	-.0670	-.0140
55.000			-.5630	-.7070	-.1990	-.1440			-.1690		-.2110				
70.000			-.5900	-.6870	-.2170	-.1480			-.1900		-.2550	-.4430	-.1330	-.0390	-.0100
90.000		.1980	-.5940	-.6450	-.1900	-.1750			-.2390		-.2890	-.4580	-.1310	-.0410	-.0220
120.000			-.4160	-.4400	-.1680	-.1780			-.4740		-.3350	-.3270	-.1310	-.0630	-.0350
142.000										-.9010					
150.000			-.2160	-.2110	-.0340	.0890			-.3880		-.4600	-.2310	-.1350	-.0760	-.0300
157.000								-.1200							
162.000									-.5930						
165.000											-.5280	-.1930	-.1250	-.1200	-.1040
169.000									-.4130						
172.000							.4620								
180.000	1.0320	.5030	-.1140	-.0260	.1080	.4580			.0610		-.5940	-.2170	-.1850	-.1410	-.1280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0180							-.1140		-.0800
40.000	-.0110	-.1200		-.1930	-.2080	-.1560	-.1200			-.2700
70.000		-.1370	-.2020	-.2170	-.1230	-.1410	-.1180	-.1410		
90.000		-.0930	-.1300	-.2010	-.1750	-.1880	-.1660	-.1630		
105.000				-.2360	-.2850	-.2280	-.1930	-.1980		
110.000									-.2780	
120.000		-.0630	.0060	-.2790	-.6890	-.3280	-.2170	-.2040	-.2440	
135.000				.3870	-.2250	-.4650	-.3200	-.2790		
150.000		-.0460	.0520	.2310	.0320	-.3620	-.3170	-.2960		
165.000		-.0830		.1670	.1020	-.4230	-.3750	-.2860		
180.000		-.1130	-.0400	-.0150						

MACH (1) = .600 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.9990	.3740	.0000	-.7710	-.2390	-.1840			-.1950		-.2170	-.2000	-.1570	-.1060	-.0820
20.000			-.5880	-.7730	-.2380	-.1900			-.1930		-.2260				
40.000			-.6630	-.7710	-.2490	-.1830			-.1950		-.2630	-.2210	-.1490	-.0920	-.0290
55.000			-.7020	-.8240	-.2430	-.1780			-.1970		-.2310				
70.000			-.7390	-.8010	-.2550	-.1800			-.2270		-.2740	-.4570	-.1420	-.0380	-.0240
90.000		.0680	-.7280	-.7420	-.2480	-.2240			-.2910		-.3180	-.4670	-.1340	-.0600	-.0400
120.000			-.5370	-.5350	-.2450	-.2630			-.5730		-.3560	-.3460	-.1510	-.0850	-.0490

AMES 11-707 IA9 OEA + 83 + T9 ORBITER FUSELAGE (RBM006)

MACH (1) = .800 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.0990					
150.000			-.2980	-.2880	-.1140	-.0070			-.4720		-.4780	-.2570	-.1550	-.0880	-.0610
157.000								-.2470							
162.000									-.7160						
165.000											-.5880	-.2280	-.1930	-.1810	-.1580
169.000									-.4710						
172.000							.3820								
180.000	.9990	.4780	-.1380	-.0820	.0820	.4010			.0100		-.6860	-.2710	-.2350	-.2430	-.2230

X/LB	.5873	.6526	.7360	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.3090							-.1260		-.0910
40.000	-.0130	-.1070		-.2350	-.2750	-.1750	-.2150			-.2620
70.000		-.1410	-.2270	-.2480	-.1500	-.1770	-.1590	-.1840		
90.000		-.1100	-.1570	-.2380	-.2130	-.2250	-.1980	-.1940		
105.000				-.2770	-.3330	-.2660	-.2310	-.2260		
110.000									-.2940	
120.000		-.0870	-.0180	-.3420	-.7800	-.3850	-.2600	-.2390	-.2650	
135.000				.3690	-.2770	-.5620	-.3950	-.3330		
150.000		-.1150	-.0230	.1300	-.0250	-.4180	-.3690	-.3140		
165.000		-.1440		.0990	.0380	-.5360	-.4510	-.2900		
180.000		-.1920	-.1240	-.0680						

MACH (2) = .904 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1670	.6550	.0000	-.8840	- 3480	-.1680			-.1850		-.2630	-.3680	-.3190	-.1030	-.0050
20.000			.0450	-.6900	-.3930	-.171-			-.1710		-.2560				
40.000			.2540	-.4330	-.1980	-.2450			-.2540		-.3050	-.3710	-.1460	-.0140	.1140
55.000			.3490	-.2310	.0300	.0810			.0540		-.0450				
70.000			.3640	-.1450	.0710	.1420			.0820		-.0560	-.6320	-.0750	.0810	.0790
90.000		.9590	.3210	-.1100	.1530	.1860			.1000		-.0750	-.7540	-.0980	.0470	.0560
120.000			.2420	-.0170	.2140	.3160			.1940		-.1750	-.8170	-.1340	.0090	.0190
142.000										-.5310					
150.000			.1400	-.0080	.1970	.5400			.2460		-.6040	-.6160	-.1230	-.0020	.0000
157.000								.5640							
162.000									.1370						
165.000															
169.000									-.0530						
172.000							.7440								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (2) = .904 BETAT (1) = -6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
180.000	1.1670	.5930	-.1230	-.0870	.0850	.5810			.2670		-1.1290	-.7450	-.2850	-.1940	-.1680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1200							-.0990		-.0580
40.000	.2080	.2680		-.0780	-.2420	-.2920	-.1930			-.1460
70.000		-.0990	-.1510	-.0560	.0820	.0480	.0930	.0430		
90.000		-.0620	-.0400	.0540	.0370	.0030	.0480	.0290		
105.000				.1480	-.0180	-.0110	.0240	-.0010		
110.000									-.2360	
120.000		-.0510	.1270	.3760	-.1470	-.0700	.0340	.0120	-.1580	
135.000				.3690	.0400	-.0743	.0200	-.0410		
150.000		-.0140	.1480	.1840	-.0620	.0010	.0410	-.1070		
165.000		.0120		.2240	.1910	.0840	.0570	-.3120		
180.000		-.1130	.0260	.0850						

MACH (2) = .901 BETAT (2) = -6.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
.000	1.1900	.6810	.0000	-.9020	-.3360	-.1110			-.1420		-.2360	-.3340	-.1510	-.0580	.0910
20.000			.0220	-.7350	-.3940	-.1230			-.1320		-.2260				
40.000			.1940	-.5410	-.2410	-.1830			-.1660		-.2770	-.3560	-.1220	-.0010	.0380
55.000			.2650	-.3820	-.0330	.0530			.0150		-.0790				
70.000			.2710	-.2890	.0060	.1060			.0360		-.0940	-.6610	-.0690	.0300	.0720
90.000		.8990	.2190	-.2360	.0950	.1410			.0500		-.1130	-.7780	-.0820	.0400	.0990
120.000			.1740	-.0900	.1710	.2810			.1220		-.1940	-.8340	-.0750	.0140	.0980
142.000										-.6490					
150.000			.0980	-.0450	.1890	.5310			.2240		-.5370	-.6080	-.0890	.0110	.0740
157.000								.5400							
162.000									.1150						
165.000											-.7090	-.5270	-.0440	.0150	.0670
169.000									-.0390						
172.000							.7650								
180.000	1.1900	.8020	-.1270	-.0890	.1130	.6160			.2890		-1.1600	-.6770	-.0840	-.0520	-.0110

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	1250							-.1970		-.0830
40.000	.1870	.2040		-.1110	-.2660	-.2520	-.1660			-.1270

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (2) = .901 BETAT (2) = -6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1010	-.1560	-.0980	.0350	.0150	.0680	.0330		
90.000		-.0630	-.0440	.0140	-.0200	-.0310	.0210	.0130		
105.000				.0940	-.0880	-.0600	.0010	-.0180		
110.000									-.2440	
120.000		-.0330	.1310	.3040	-.2420	-.1100	.0080	-.0100	-.1650	
135.000				.4000	.0400	-.1030	-.0030	-.0590		
150.000		-.0050	.1550	.2210	-.0220	-.0460	.0020	-.1350		
165.000		.0130		.2330	.1860	.0240	.0070	-.3140		
180.000		-.0800	.0870	.1280						

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2060	.6820	.0000	-.9120	-.5330	-.0730			-.1140		-.2130	-.3100	-.1140	-.0200	.0620
20.000			-.0030	-.7640	-.3990	-.0870			-.1100		-.2150				
40.000			.1310	-.6180	-.3090	-.1340			-.1590		-.2600	-.3440	-.0800	.0060	.0990
55.000			.1790	-.5320	-.1230	.0260			-.0280		-.1230				
70.000			.1730	-.4790	-.0690	.0660			-.0120		-.1500	-.6840	-.0850	.0450	.0600
90.000		.8290	.1270	-.4150	.0220	.0950			-.0090		-.1590	-.7960	-.1360	.0390	.0330
120.000			.0880	-.1870	.1170	.2350			.0380		-.1970	-.8490	-.0760	.0240	.0320
142.000										-.8070					
150.000			.0550	-.0930	.1760	.5100			.1940		-.6650	-.6100	-.0480	.0110	.0230
157.000								.5010							
162.000									.0810						
165.000											-.8950	-.5120	-.0960	.0180	.0210
169.000									-.0230						
172.000							.7800								
180.000	1.2060	.8170	-.1180	-.0770	.1360	.6460			.3070		-1.1890	-.3670	-.2050	-.0210	-.0040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1340							-.0880		-.0260
40.000	.1650	.1720		-.1480	-.2680	-.2580	-.1570			-.1350
70.000		-.0990	-.1570	-.1340	-.0250	-.0360	.0350	.0110		
90.000		-.0560	-.0480	-.0380	-.0930	-.0820	-.0100	-.0110		
105.000				.0350	-.1630	-.1170	-.0320	-.0420		
110.000									-.2480	
120.000		-.0200	.1290	.2160	-.3330	-.1640	-.0310	-.0410	-.1740	
135.000				.4170	.0280	-.1640	-.0460	-.0900		
150.000		.0060	.1580	.2590	.0180	-.1130	-.0530	-.1720		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNB06)

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE

MACH (2) = .902 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0170		.2450	.1890	-.0450	-.0520	-.3180		
180.000		-.0190	.0860	.1530						

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2150	.6890	.0000	-.9100	-.5700	-.0500			-.1000		-.2050	-.2770	-.0940	.0050	.0030
20.000			-.0260	-.7890	-.5900	-.0630			-.1000		-.2110				
40.000			.0700	-.6700	-.2840	-.0980			-.1380		-.2610	-.3560	-.0750	.0100	.0030
55.000			.1000	-.6230	-.1700	.0000			-.0590		-.1790				
70.000			.0820	-.6200	-.1280	.0300			-.0530		-.2180	-.7050	-.0990	.0360	.0510
90.000		.7600	.0280	-.5780	-.0420	.0540			-.0590		-.2780	-.6150	-.1270	.0560	.0290
120.000			.0100	-.3080	.0680	.1860			-.0410		-.4160	-.8630	-.0630	.0300	.0360
142.000										-1.0140					
150.000			.0120	-.1470	.1560	.4810			.1630		-.7620	-.5960	-.0610	.0220	.0250
157.000								.4500							
162.000									.0400						
165.000											-.9530	-.5370	-.0380	.0330	.0160
169.000									-.0230						
172.000							.7760								
180.000	1.2150	.6520	-.1200	-.0800	.1540	.6610			.3150		-1.1820	-.4580	-.0520	.0080	.0180

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1420							-.0680		-.0200
40.000	.1450	.1160		-.1710	-.3000	-.2270	-.1260			-.1620
70.000		-.0920	-.1500	-.1650	-.0960	-.0950	.0020	-.0140		
90.000		-.0520	-.0440	-.0750	-.1630	-.1290	-.0430	-.0360		
105.000				-.0130	-.2380	-.1620	-.0560	-.0610		
110.000									-.2620	
120.000		-.0140	.1230	.1270	-.4140	-.2050	-.0580	-.0620	-.1870	
135.000				.4610	.0090	-.2390	-.0900	-.1160		
150.000		.0150	.1660	.2890	.0510	-.1920	-.1070	-.2020		
165.000		.0170		.2610	.1970	-.1300	-.1060	-.3020		
180.000		.0180	.1220	.1810						

AMES 11-7OT IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMBOB)

MACH (2) = .903 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.2140	.6800	.0000	-.9200	-.5360	-.0490			-.0960		-.2120	-.2860	-.1030	.0050	.0780
20.000			-.0870	-.8430	-.6350	-.0530			-.0960		-.2420				
40.000			-.0520	-.7720	-.5780	-.0810			-.1140		-.3020	-.3550	-.0790	.0040	.0700
55.000			-.0610	-.7720	-.2260	-.0440			-.1140		-.3110				
70.000			-.0960	-.8010	-.1720	-.0290			-.1280		-.4050	-.7720	-.1450	.0340	.0430
90.000		.6090	-.1450	-.7690	-.1110	-.0340			-.1530		-.4490	-.8600	-.1600	.0290	.0290
120.000			-.1280	-.5360	-.0530	.0670			-.2050		-.5840	-.8210	-.0990	.0200	.0280
142.000										-1.1540					
150.000			-.0730	-.2700	.0720	.3840			.0730		-.8000	-.5060	-.1470	.0320	.0260
157.000								.3090							
162.000									-.0740						
165.000											-.8810	-.6100	-.1050	.0420	.0110
169.000									-.0380						
172.000							.7530								
180.000	1.2140	.6270	-.1200	-.0880	.1560	.6560			.3110		-1.1730	-.4700	-.0960	.0120	.0140

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9699	1.0015	1.0322
PHI										
.000	.1410							-.0840		-.0190
40.000	.1010	.0010		-.2100	-.2970	-.2110	-.1370			-.1960
70.000		-.0740	-.1390	-.2080	-.1810	-.3130	-.0750	-.0600		
90.000		-.0360	-.0500	-.1430	-.2580	-.3940	-.1160	-.0830		
105.000				-.1160	-.3460	-.4310	-.1330	-.1150		
110.000									-.2840	
120.000		-.0040	.1040	-.0320	-.5450	-.5120	-.1440	-.1310	-.2200	
135.000				.4310	-.0200	-.5930	-.2350	-.2050		
150.000		.0220	.1520	.3320	.1090	-.3870	-.2840	-.2730		
165.000		.0130		.2630	.2010	-.3200	-.2970	-.2980		
180.000		.0140	.1190	.1780						

MACH (2) = .903 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.2040	.6790	.0000	-.9240	-.5300	-.0780			-.1100		-.2200	-.3170	-.1160	-.0110	.0820
20.000			-.1270	-.8810	-.6700	-.0780			-.1110		-.2580				
40.000			-.1250	-.8330	-.6400	-.0660			-.1230		-.3250	-.4070	-.0850	-.0080	.0360
55.000			-.1520	-.8540	-.5730	-.0700			-.1380		-.3470				
70.000			-.1930	-.8810	-.2760	-.0590			-.1590		-.4590	-.8160	-.1790	.0330	.0160
90.000		.9270	-.2300	-.8450	-.1540	-.0750			-.2020		-.5120	-.8860	-.2030	.0330	.0290
120.000			-.1970	-.6200	-.1340	.0000			-.3010		-.6640	-.7820	-.1440	.0160	.0230

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (2) = .903 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-1.1990					
142.000									.0150		-.6470	-.5700	-.1790	.0410	.0240
150.000			-.1110	-.2970	.0210	.3220		.2190							
157.000									-.1400						
162.000											-.9290	-.6000	-.1770	.0180	-.0180
165.000									-.0570						
169.000							.6950								
172.000									.2970		-1.1590	-.3040	-.1230	-.0190	-.0120
180.000	1.2040	.6320	-.1070	-.0620	.1420	.6370									

X/LB	.5073	.6626	.7580	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI								-.0850		-.0290
.000	.1370									-.2280
40.000	.0860	-.0580		-.1800	-.2550	-.1870	-.1390			
70.000		-.0660	-.1280	-.2160	-.2040	-.4310	-.1300	-.0940		
90.000		-.0330	-.0500	-.1620	-.2860	-.4840	-.1800	-.1040		
105.000				-.1390	-.3950	-.4830	-.2080	-.1310		
110.000									-.2970	
120.000		-.0020	.0960	-.0960	-.6090	-.5630	-.3100	-.1420	-.2320	
135.000				.4770	-.0570	-.6870	-.4820	-.2230		
150.000		.0120	.1330	.2830	.1060	-.4120	-.4630	-.3850		
165.000		-.0070		.2520	.1980	-.3800	-.4050	-.3220		
180.000		-.0220	.0890	.1380						

MACH (2) = .907 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1840	.6680	.0000	-.9100	-.3180	-.1230			-.1320		-.2430	-.3430	-.1880	-.0370	.0220
20.000			-.1530	-.8900	-.4730	-.1140			-.1310		-.2840				
40.000			-.1810	-.8710	-.6950	-.0910			-.1330		-.3510	-.4470	-.1000	-.0200	.0500
55.000			-.2280	-.9180	-.6740	-.0920			-.1530		-.3730				
70.000			-.2760	-.9480	-.4050	-.0930			-.1830		-.4930	-.8470	-.2300	.0430	.0530
90.000		.4400	-.3090	-.9120	-.1790	-.1280			-.2360		-.5590	-.9120	-.2460	.0400	.0330
120.000			-.2670	-.7250	-.2510	-.0870			-.3830		-.7350	-.7210	-.1630	.0220	.0270
142.000										-1.2420					
150.000			-.1610	-.3700	-.0540	.2390			-.0520		-.9900	-.6640	-.1940	.0380	.0080
157.000								.1180							
162.000									-.2090						
165.000											-.9690	-.6740	-.2090	-.0410	-.05
169.000									-.0790						
172.000							.6350								

AMES 11-707 IA9 OA4 + 33 + T9 ORBITER FUSELAGE (RUN808)

MACH (2) = .907 BETAT (7) = 0.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1840	.8100	-.1200	-.1070	.1090	.5970			.2700		-1.1420	-.6300	-.1380	-.0700	-.0890

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1300							-.1080		-.0320
40.000	.0780	-.0750		-.1840	-.2290	-.2100	-.1590			-.2950
70.000		-.0590	-.1270	-.2210	-.2230	-.4810	-.2390	-.1160		
90.000		-.0290	-.0500	-.1700	-.3080	-.5020	-.3610	-.1260		
105.000				-.1570	-.4440	-.5040	-.4840	-.1570		
110.000									-.2990	
120.000		-.0040	.0900	-.1130	-.6440	-.5970	-.5260	-.2060	-.2390	
135.000				.4850	-.0360	-.7410	-.6170	-.5420		
150.000		-.0310	.0870	.2160	.0880	-.4130	-.5200	-.4720		
165.000		-.0440		.2110	.1710	-.4210	-.4630	-.3310		
180.000		-.0840	.0390	.1150						

MACH (2) = .904 BETAT (8) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1550	.6420	0000	-.9060	-.3260	-.1770			-.1820		-.2740	-.3870	-.3170	-.0720	-.0140
20.000			-.1980	-.9090	-.3730	-.1610			-.1780		-.3110				
40.000			-.2590	-.9250	-.7110	-.1230			-.1670		-.3880	-.5040	-.1180	-.0420	.0410
55.000			-.3250	-.9900	-.7400	-.1230			-.1790		-.3990				
70.000			-.3900	-1.0250	-.5380	-.1300			-.2140		-.5300	-.8420	-.2140	.0420	.0620
90.000		.3480	-.4090	-.9860	-.4070	-.1750			-.2860		-.6210	-.6700	-.2090	.0400	.0380
120.000			-.3400	-.7780	-.3640	-.1760			-.4790		-.8150	-.5330	-.2020	.0210	.0230
142.000										-1.2820					
150.000			-.2030	-.3970	-.1350	.1550			-.1440		-1.0250	-.6610	-.2200	-.0020	-.0590
157.000								.0270							
162.000									-.2670						
165.000											-1.0810	-.6650	-.2760	-.1020	-.1040
169.000									-.1080						
172.000							.5630								
180.000	1.1550	.5990	-.1170	-.1010	.0700	.5480			.2320		-1.0600	-.7280	-.2870	-.2250	-.1730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	1140							-.1080		-.0720
40.000	.0770	-.0410		-.2400	-.2440	-.2260	-.2310			-.2950

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (2) = .904 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0360	-.1230	-.2270	-.2340	-.5120	-.3980	-.1910		
90.000		-.0250	-.0540	-.1760	-.3190	-.5330	-.5350	-.1890		
105.000				-.1600	-.4570	-.5500	-.5580	-.1360		
110.000									-.2910	
120.000		-.0080	.0820	-.1040	-.6700	-.6430	-.5590	-.4360	-.2650	
135.000				.4830	-.0060	-.7850	-.7730	-.6200		
150.000		-.0950	.0100	.1040	-.0390	-.4570	-.5830	-.5610		
165.000		-.1020		.1990	.1260	-.4860	-.5350	-.3510		
180.000		-.1290	.0100	.0760						

MACH (3) = 1.099 BETAT (1) = -8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.4120
PHI															
.000	1.2440	.8030	.0000	-.4740	-.2140	-.2820			.1140		-.0200	-.1300	-.2400	-.3380	-.3710
20.000			.3090	-.3220	-.2160	-.0970			.1070		-.0090				
40.000			.5000	-.1220	-.0200	-.0920			-.1190		-.0810	-.1270	-.1510	-.1830	-.1180
55.000			.5830	.0230	.1520	.2120			.2090		.1320				
70.000			.5860	.0510	.2000	.2660			.2500		.1100	-.3130	-.2360	-.0990	-.0680
90.000		1.0950	.5320	.0340	.2580	.3200			.2750		.0810	-.3970	-.3140	-.1080	-.1030
120.000			.4290	.0910	.3090	.4640			.3740		-.0290	-.4510	-.3030	-.1610	-.1360
142.000										-.2750					
150.000			.3230	.0680	.3000	.6950			.4660		-.3440	-.3080	-.3050	-.2370	-.1530
157.000								.7390							
162.000									.3710						
165.000											-.4670	-.2590	-.2880	-.2190	-.1240
169.000									.2070						
172.000							.9040								
180.000	1.2440	.7330	.0950	.0290	.2090	.7420			.4810		-.7970	-.4250	-.3080	-.5170	-.4030

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							.0180		-.1000
40.000	.2820	.4140		.1290	.0170	-.4360	-.3320			-.1130
70.000		-.0070	-.1160	.0660	.1840	-.0320	-.1350	-.0970		
90.000		.0250	-.0660	.1660	.1240	-.0440	-.1620	-.1080		
105.000				.2560	.0690	-.0630	-.1780	-.1190		
110.000									-.2360	
120.000		.0370	.1410	.5430	.0330	-.1520	-.0620	-.0460	-.1420	
135.000				.4780	.1950	-.2300	.0610	.0400		
150.000		.0500	.2290	.2770	.0790	.0600	.1410	.0380		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMBOD)

MACH (3) = 1.099 BETAT (1) = -8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0840		.3430	.3200	.1900	.1800	-.1900		
180.000		-.0480	.1290	.2280						

MACH (3) = 1.100 BETAT (2) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2550	.6220	.0000	-.4840	-.2450	-.2540			.1340		-.0040	-.1050	-.2020	-.3080	-.3190
20.000			.2840	-.3450	-.2100	-.3000			.1340		.0090				
40.000			.4450	-.1840	-.0280	-.3650			.0220		-.0630	-.1270	-.1540	-.1780	-.1400
55.000			.5060	-.0800	.1250	.0290			.2060		.0860				
70.000			.5040	-.0590	.1640	.1480			.2230		.0520	-.3410	-.2760	-.1160	-.0880
90.000		1.0380	.4520	-.0810	.2180	.2500			.2310		.0090	-.4190	-.3550	-.1240	-.1070
120.000			.3710	-.0020	.2810	.4150			.2990		-.0980	-.4720	-.3150	-.1720	-.1100
142.000										-.3960					
150.000			.2980	.0220	.2960	.6770			.4430		-.3830	-.3170	-.3070	-.2370	-.1120
157.000								.7110							
162.000									.3470						
165.000											-.5880	-.2890	-.3000	-.2230	-.0980
169.000									.2200						
172.000							.9190								
180.000	1.2550	.7530	.1020	.0160	.2340	.7690			.4980		-.7660	-.4500	-.5010	-.3310	-.2710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2050							.0000		-.0900
40.000	.2640	.3700		-.0470	.0010	-.4490	-.2060			-.1440
70.000		-.0070	-.1270	.0550	.1480	-.0590	-.1560	-.1260		
90.000		.0220	-.0280	.1510	.0800	-.0720	-.1890	-.1280		
105.000				.2130	.0330	-.0690	-.1930	-.1370		
110.000									-.2750	
120.000		.0140	.1980	.4850	-.0050	-.1690	-.0800	-.0780	-.1760	
135.000				.5430	.2200	-.1700	.0290	.0080		
150.000		.0500	.2570	.3160	.1430	-.0030	.0950	-.0020		
165.000		.0790		.3560	.3480	.1090	.1240	-.2280		
180.000		-.0120	.1830	.2850						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + 33 + T9 ORBITER FUSELAGE (RBMB06)

MACH (3) = 1.100 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2720	.8370	.0000	-.4970	-.2640	-.1710			.1610		.0290	-.0710	-.1700	-.2740	-.1360
20.000			.2600	-.3700	-.2350	-.2600			.1630		.0260				
40.000			.3850	-.2430	-.0710	-.3530			.0900		-.0450	-.1130	-.1510	-.2020	-.1480
55.000			.4310	-.1730	.1250	-.0840			.1990		.0480				
70.000			.4210	-.1710	.1500	.0490			.1950		.0020	-.3630	-.3030	-.1410	-.0880
90.000		.9800	.3730	-.1710	.2050	.1530			.1810		-.0450	-.4340	-.3790	-.1410	-.1000
120.000			.3160	-.0960	.2610	.3610			.2100		-.1570	-.4890	-.3280	-.1820	-.0870
142.000										-.5580					
150.000			.2730	-.0170	.3030	.6550			.4140		-.4240	-.5400	-.3120	-.2140	-.0850
157.000								.6760							
162.000									.3160						
165.000											-.7150	-.3160	-.3170	-.2110	-.0820
169.000									.2290						
172.000							.9270								
180.000	1.2720	.7740	.1200	.0130	.2700	.7910			.5090		-.7510	-.4710	-.3980	-.2320	-.1260

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2080							-.0200		-.0870
40.000	.2390	.3120		-.1130	-.0610	-.4710	-.2550			-.1590
70.000		-.0080	-.1200	.0370	.1160	-.0870	-.1860	-.1530		
90.000		.0240	-.0040	.1200	.0370	-.0970	-.2110	-.1540		
105.000				.1680	.0000	-.1160	-.2090	-.1640		
110.000									-.3020	
120.000		.0250	.2200	.4120	-.0580	-.1970	-.1230	-.1090	-.2050	
135.000				.5810	.2390	-.1950	-.0220	-.0290		
150.000		.0290	.2740	.3660	.2160	-.0500	.0420	-.0460		
165.000		.0410		.3890	.3600	.0600	.0560	-.2640		
180.000		-.0120	.2150	.3220						

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2810	.8370	.0000	-.5150	-.2670	-.0730			.1670		.0430	-.0670	-.1540	-.2500	.0390
20.000			.2240	-.4040	-.2580	-.0820			.1680		.0300				
40.000			.3220	-.2950	-.1420	-.3470			.1210		-.0340	-.1130	-.1700	-.2340	-.1350
55.000			.3520	-.2530	.0220	-.1010			.1880		.0130				
70.000			.3420	-.2530	.2120	.0220			.1670		-.0500	-.3970	-.3410	-.1810	-.0890
90.000		.9130	.2960	-.2530	.2090	.1120			.1250		-.1000	-.4630	-.4150	-.1750	-.0730
120.000			.2630	-.1670	.2410	.3160			.1320		-.2260	-.5210	-.3520	-.1770	-.0750

AMES 11-707 IA9 OEA + 83 + T2 ORBITER FUSELAGE (RUN808)

MACH (3) = 1.099 BETAT (4) = -2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6350					
150.000			.2430	-.0650	.2950	.8290			.3820		-.4720	-.3940	-.3250	-.1890	-.0790
157.000								.8270							
162.000									.2780						
165.000											-.7740	-.3630	-.3280	-.1880	-.0820
169.000									.2300						
172.000							.9220								
180.000	1.2810	.7820	.1220	.0160	.2950	.8050			.5140		-.7510	-.5730	-.3230	-.2020	-.0920

X/LB	.5875	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0382
PHI										
.000	.2040							-.0030		-.1090
40.000	.2110	.2500		-.1900	-.1240	-.4490	-.2480			-.1590
70.000		-.0130	-.0880	.0270	.0760	-.1180	-.2140	-.1600		
90.000		.0200	.0370	.0950	.0040	-.1300	-.2310	-.1670		
105.000				.1350	-.0330	-.1360	-.2240	-.1830		
110.000									-.3190	
120.000		.0290	.2190	.3130	-.1110	-.2270	-.1560	-.1390	-.2420	
135.000				.6290	.2370	-.2270	-.0770	-.0770		
150.000		.0350	.2800	.3810	.2610	-.0810	-.0400	-.1020		
165.000		.0410		.4000	.3930	.0250	-.0130	-.2930		
180.000		.0290	.2620	.3560						

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0073	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2980	.6250	.0000	-.5200	-.2460	-.0860			.1770		.0510	-.0680	-.1550	-.2420	.0520
20.000			.1580	-.4740	-.3170	-.0720			.1630		.0230				
40.000			.1930	-.4140	-.2660	-.0660			.1290		-.0440	-.1430	-.2160	-.2950	.0550
55.000			.1920	-.4140	-.2450	-.1090			.1290		-.0600				
70.000			.1720	-.4140	-.2430	-.0030			.0940		-.1490	-.4680	-.4230	-.2230	-.0790
90.000		.7720	.1370	-.3960	-.0480	.0630			-.0200		-.2190	-.5280	-.4850	-.1860	-.0790
120.000			.1360	-.3110	.0950	.2310			-.0040		-.3580	-.5890	-.4000	- 1750	-.0620
142.000										-.7050					
150.000			.1720	-.1390	.2210	.5560			.3040		-.5870	-.5240	-.2960	-.2050	-.0710
157.000								.5080							
162.000									.1860						
165.000											-.6250	-.4910	- 2650	-.1950	- 0 91
169.000									.2170						
172.000							.3860								

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S2 + T9 ORBITER FUSELAGE (RBMB06)

MACH (3) = 1.101 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2980	.7860	.1210	.0190	.2910	.7990			.5090		-.7410	-.5940	-.3090	-.2020	-.0870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2060							-.0060		-.0500
40.000	.1660	.1110		-.1510	-.1880	-.2400	-.2090			-.1930
70.000		-.0050	.0370	.0360	.0370	-.1630	-.2520	-.2150		
90.000		.0290	.1110	.0790	-.0230	-.1650	-.2520	-.2190		
105.000				.0880	-.0780	-.1850	-.2500	-.2390		
110.000									-.3580	
120.000		.0490	.2620	.2030	-.1950	-.2750	-.2110	-.2100	-.2970	
135.000				.6540	.2170	-.3250	-.2170	-.1870		
150.000		.0430	.3050	.5010	.3330	-.1350	-.1920	-.1980		
165.000		.0350		.4550	.4040	-.0670	-.1240	-.3900		
180.000		.0310	.2560	.3570						

MACH (3) = 1.100 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.8240	.0000	-.5020	-.2400	-.1750			.1690		.0320	-.0770	-.1810	-.2860	-.1030
20.000			.1380	-.4750	-.3090	-.1460			.1570		.0030				
40.000			.1320	-.4470	-.3080	-.1230			.1330		-.0610	-.1740	-.2550	-.3370	.0400
55.000			.1090	-.4700	-.3190	-.1180			.1080		-.0970				
70.000			.0810	-.4920	-.3500	-.0200			.0010		-.1950	-.5010	-.4600	-.2290	-.0820
90.000		.6850	.0530	-.4630	-.2900	.0340			-.0800		-.2760	-.5640	-.5130	-.1940	-.0830
120.000			.0740	-.3640	.0110	.1780			-.0710		-.4880	-.6210	-.4280	-.1990	-.0800
142.000										-.7460					
150.000			.1350	-.1580	.1570	.5050			.2530		-.6690	-.5680	-.2960	-.2270	-.1020
157.000								.4380							
162.000									.1350						
165.000											-.8350	-.5470	-.2800	-.2330	-.1310
169.000									.2060						
172.000							.8520								
180.000	1.2860	.7830	.1230	.0390	.2640	.7820			.4980		-.7350	-.4620	-.3750	-.2340	-.1280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							-.0270		-.0560
40.000	.1530	-.0050		-.1470	-.1930	-.2040	-.1880			-.2260

AMES 11-707 IA9 ORA + S3 + T9 ORBITER FUSELAGE (DEMO06)

MACH (3) = 1.100 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0510	.0360	.0330	.0230	-.1860	-.2780	-.2490		
90.000		.0780	.1250	.0710	-.0380	-.1870	-.2770	-.2560		
105.000				.0690	-.1270	-.2130	-.2790	-.2750		
110.000									-.3760	
120.000		.1030	.2650	.1510	-.2490	-.3250	-.2460	-.2560	-.3330	
135.000				.6910	.1860	-.3840	-.3340	-.2520		
150.000		.0870	.2920	.4900	.3290	-.1440	-.2440	-.2690		
165.000		.0990		.4520	.4090	-.1170	-.1780	-.4120		
180.000		-.0070	.2070	.3100						

MACH (3) = 1.100 BETAT (7) = 6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2590	.8210	.0000	-.4950	-.2150	-.2730			.1410		.0080	-.1030	-.2190	-.3090	-.3110
20.000			.1110	-.4970	-.2520	-.1980			.1340		-.0280				
40.000			.0750	-.4970	-.3580	-.1420			.1150		-.0950	-.2150	-.3100	-.3800	.0110
55.000			.0280	-.5370	-.4060	-.1040			.0790		-.1280				
70.000			-.0210	-.5600	-.4290	-.0510			-.0120		-.2290	-.3420	-.3010	-.2430	-.0720
90.000		.6000	-.0400	-.5340	-.4060	.0110			-.1060		-.3250	-.6010	-.3510	-.2140	-.0770
120.000			-.0070	-.4240	-.0890	.1270			-.1360		-.5310	-.6660	-.4250	-.2360	-.1030
142.000										-.7810					
150.000			.0760	-.1950	.0770	.4430			.1860		-.7300	-.5980	-.3370	-.2720	-.1060
157.000								.3560							
162.000									.0800						
165.000											-.8480	-.6020	-.3370	-.3280	-.1990
169.000									.1860						
172.000							.6010								
180.000	1.2590	.7560	.0980	.0240	.2270	.7490			.4760		-.7320	-.4510	-.4630	-.3080	-.2710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							-.0070		-.0790
40.000	.1350	-.0280		-.1570	-.2040	-.2260	-.1820			-.3030
70.000		.0620	.0700	.0300	.0150	-.2050	-.2990	-.2780		
90.000		.0930	.1310	.0670	-.0500	-.2180	-.3070	-.2880		
105.000				.0510	-.1770	-.2410	-.3080	-.3020		
110.000									-.3880	
120.000		.1060	.2440	.1090	-.3040	-.3690	-.2790	-.3000	-.3570	
135.000				.6940	.1840	-.4290	-.4230	-.3280		
150.000		.0710	.2370	.3990	.2980	-.1430	-.2550	-.2980		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7OT IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB06)

MACH (3) = 1.100 BETAT (7) = 6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0510		.4150	.3970	-.1450	-.2160	-.4240		
180.000		-.0280	.1760	.2830						

MACH (3) = 1.101 BETAT (8) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2330	.9030	.0000	-.4890	-.2130	-.1780			.1180		-.0120	-.1280	-.2420	-.3170	-.3290
20.000			.0720	-.5100	-.2210	-.1920			.1110		-.0560				
40.000			.0060	-.5360	-.4140	-.1430			.0650		-.1250	-.2650	-.3950	-.4540	-.0590
55.000			-.0550	-.5970	-.4700	-.1080			.0440		-.1520				
70.000			-.1120	-.6230	-.4960	-.0520			-.0470		-.2610	-.5750	-.5300	-.2490	-.0330
90.000		.5100	-.2220	-.5930	-.4810	-.0070			-.1420		-.3750	-.6330	-.5870	-.2340	-.0500
120.000			-.0690	-.4860	-.1750	.0710			-.2100		-.5740	-.7170	-.4170	-.3000	-.0250
142.000										-.8080					
150.000			.0340	-.2050	.0160	.3750			.1130		-.7730	-.6170	-.4010	-.3050	-.2020
157.000								.2890							
162.000									.0400						
165.000											-.8540	-.5810	-.4450	-.4230	-.3090
169.000									.1680						
172.0 J							.7420								
180.000	1.2330	.7420	.0900	.0280	.1910	.7100			.4490		-.7260	-.4550	-.4770	-.5050	-.4190

X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							.0120		-.0710
40.000	.0940	.0560		-.2240	-.2370	-.2320	-.2340			-.2890
70.000		.0710	.0680	.0260	.0140	-.2190	-.3100	-.3000		
90.000		.0940	.1280	.0710	-.0550	-.2360	-.3190	-.3070		
105.000				.0500	-.1910	-.2630	-.3200	-.3190		
110.000									-.3900	
120.000		.0970	.2280	.0890	-.3340	-.4060	-.3090	-.3330	-.3660	
135.000				.2750	.2280	-.4350	-.4560	-.4040		
150.000		-.0210	.1520	.2300	.0910	-.2130	-.3140	-.3620		
165.000		-.0650		.3310	.3390	-.1960	-.2690	-.4520		
180.000		-.0700	.1190	.2220						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBN006)

MACH (4) = 1.248 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1508	.1581	.1732	.1958	.2259	.2711	.3200	.3959	.5120
PHI															
.000	1.2780	.9130	.0000	-.2480	-.0350	-.2590			-.2820		.0260	.0910	-.0290	-.1750	-.3130
20.000			.4690	-.0960	-.0350	-.2430			-.2230		-.0020				
40.000			.6660	.1030	.1520	-.2170			-.2280		-.0560	-.0720	.0150	-.0680	-.0570
55.000			.7440	.2350	.2930	.0700			.1260		.2080				
70.000			.7420	.2490	.3080	.1790			.1960		.1830	-.1730	-.1310	-.0140	-.0240
90.000		1.1770	.6680	.1920	.3450	.2880			.2780		.0430	-.2340	-.2010	-.0310	-.0470
120.000			.5360	.1650	.3710	.4910			.4450		-.0640	-.2850	-.2080	-.0970	-.0820
142.000										-.1520					
150.000			.4200	.1210	.3360	.7400			.5670		-.2500	-.2370	-.2080	-.1480	-.0980
157.000								.8200							
162.000									.4780						
165.000											-.3710	-.1970	-.1610	-.1430	-.0790
169.000									.3160						
172.000							.9640								
180.000	1.2760	.7830	.1980	.0760	.2330	.7780			.5610		-.5940	-.3340	-.3590	-.3680	-.3780

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9252	.9699	1.0015	1.0382
PHI										
.000	.0880							.0510		-.0950
40.000	-.0750	.4760		.1020	.0980	-.2460	-.5240			.0440
70.000		-.0880	-.1030	-.1410	.1310	.0140	-.0560	-.0990		
90.000		-.0870	-.0600	.1250	.0450	.0320	-.0870	-.1020		
105.000				.2170	.0950	.0300	-.1150	-.1200		
110.000									-.1490	
120.000		-.1120	-.0580	.5930	.1400	-.0920	-.0910	.0050	-.0530	
135.000				.4130	.2360	-.2160	.0910	.1240		
150.000		-.1140	.0970	.1980	.1030	.1420	.2030	.1430		
165.000		-.0830		.2870	.3640	.1970	.2520	-.0670		
180.000		-.2510	.0170	.1770						

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1508	.1581	.1732	.1958	.2259	.2711	.3200	.3959	.5120
PHI															
.000	1.3150	.9330	.0000	-.2660	-.0640	-.2010			-.2170		.1290	.0990	-.0280	-.1790	-.2820
20.000			.4460	-.1360	-.0430	-.2140			-.1920		.0550				
40.000			.6060	.0280	.1200	-.2090			-.2170		-.0440	-.0490	.0150	-.0850	-.1050
55.000			.6630	.1310	.2460	.0450			.0490		.1630				
70.000			.6580	.1340	.2760	.1580			.1510		-.0710	-.0710	-.1680	-.0450	-.0450
90.000		1.1230	.5860	.0880	.3570	.2640			.2390		-.0200	-.2170	-.2480	-.0870	-.0640
120.000			.4790	.0690	.3630	.4730			.3910		-.0820	-.3501	-.2550	-.1150	-.0730

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 TA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB06)

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.2660					
150.000			.3950	.0690	.3380	.7390			.5510		-.2760	-.2770	-.2350	-.1650	-.0920
157.000								.6020							
162.000									.4610						
165.000											-.4570	-.2420	-.2290	-.1580	-.0850
169.000									.3320						
172.000							.9850								
180.000	1.3150	.7990	.2080	.0420	.2660	.8130			.5810		-.5800	-.3390	-.3770	-.2480	-.2830

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0090							.0320		-.0860
40.000	-.0930	.4260		.0610	.0470	-.2630	-.3390			.0180
70.000		-.1160	-.1010	-.1020	.1150	-.0100	-.0800	-.0860		
90.000		-.0920	-.0570	.1090	.0250	.0010	-.1100	-.1240		
105.000				.1880	.0640	.0020	-.1400	.1290		
110.000									-.1650	
120.000		-.1010	-.0050	.5270	.0970	-.1230	-.1020	-.0170	-.0780	
135.000				.4860	.2530	-.2030	.0650	.0950		
150.000		-.0890	.1130	.2290	.1390	.0430	.1600	.0990		
165.000		-.0760		.2940	.3700	.1620	.1980	-.1040		
180.000		-.1950	.0560	.1770						

MACH (4) = 1.248 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3320	.9400	.0000	-.2780	-.0880	-.1470			-.1540		.0830	.1040	-.0170	-.1500	-.2450
20.000			.4180	-.1590	-.0590	-.1940			-.1550		.1070				
40.000			.5470	-.0280	.0740	-.2040			-.2060		-.0070	-.0040	.0130	-.1280	-.1470
55.000			.5860	.0400	.1620	.0270			.0060		-.0160				
70.000			.5710	.0400	.1770	.1380			.1210		-.0510	-.2330	-.1920	-.0690	-.0640
90.000		1.0600	.5080	.0110	.2470	.2430			.2030		-.0720	-.3430	-.2760	-.0880	-.0700
120.000			.4320	.0120	.3610	.4510			.3340		-.1400	-.3880	-.2540	-.1330	-.0720
142.000										-.3590					
150.000			.3760	.0260	.3440	.7320			.5290		-.2960	-.3010	-.2530	-.1730	-.0890
157.000								.7780							
162.000									.4360						
165.000											-.5230	-.2560	-.2330	-.1390	-.0...
169.000									.3450						
172.000							.9960								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RUN806)

MACH (4) = 1.248 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3320	.8580	.2220	.0990	.3040	.8490			.3970		-.5470	-.3730	-.3220	-.2130	-.1410
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0510							.0200		-.0790					
40.000	-.0980	.3610		.0060	-.0030	-.2640	-.2730			-.0160					
70.000		-.1270	-.0920	-.0660	.0960	-.0270	-.0960	-.1040							
90.000		-.0980	-.0440	.0690	.0170	-.0180	-.1270	-.1250							
105.000				.1520	.0410	-.0170	-.1490	-.1250							
110.000									-.1600						
120.000		-.0810	.0710	.4320	.0480	-.1470	-.0880	-.0460	-.1050						
135.000				.5230	.2850	-.1710	.0230	.0470							
150.000		-.0810	.1360	.2860	.2300	.0170	.0960	.0390							
165.000		-.0500		.0360	.3880	.1460	.1330	-.1560							
180.000		-.1240	.0340	.2720											

MACH (4) = 1.248 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3440	.9790	.0000	-.3270	-.1130	-.0100			-.1170		-.0460	.1170	.0100	-.1210	-.2290
20.000			.3840	-.2100	-.0950	-.1700			-.1120		.0540				
40.000			.4840	-.0870	.0240	-.1830			-.1150		.0410	-.0990	-.0030	-.1140	-.1500
55.000			.5010	-.0500	.0790	.0180			-.0170		-.0350				
70.000			.4840	-.0610	.0790	.1270			.0970		-.0790	-.2810	-.2670	-.0970	-.0670
90.000		.9950	.4260	-.0620	.0810	.2260			.1710		-.1380	-.3790	-.3070	-.0920	-.0690
120.000			.3750	-.0460	.2660	.4240			.2770		-.1850	-.4280	-.3100	-.1480	-.0690
142.300										-.4090					
150.000			.3500	-.0230	.3090	.7160			.5010		-.3230	-.3340	-.2700	-.1690	-.0790
157.000								.7370							
162.000									.4020						
165.000											-.5640	-.2840	-.2710	-.1700	-.0790
169.000									.3460						
172.000							.9960								
180.000	1.3440	.8310	.2260	.0400	.2710	.8640			.6000		-.5440	-.4340	-.2520	-.2100	-.0800
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0391					
PHI															
.000	.0690							.0350		-.1040					
40.000	-.0920	.2990		-.0530	-.0690	-.3090	-.2620			-.0390					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB06)

MACH (4) = 1.248 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1220	-.0810	-.0350	.0770	-.0470	-.1200	-.1210		
90.000		-.0910	-.0220	.0770	.0135	-.0410	-.1410	-.1270		
105.000				.1370	.0130	-.0410	-.1570	-.1280		
110.000									-.1960	
120.000		-.0650	.0990	.3950	.0120	-.1770	-.0850	-.0740	-.1290	
135.000				.6060	.2960	-.1640	-.0290	.0030		
150.000		-.0430	.1640	.3010	.2920	.0160	.0370	-.0150		
165.000		-.0360		.3430	.4370	.1360	.0900	-.1940		
180.000		-.0470	.1130	.2910						

MACH (4) = 1.248 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3250	.9620	.0000	-.3400	-.1360	.0030			-.1190		-.0440	.1250	.0180	-.1170	-.2420
20.000			.2960	-.3100	-.1620	.0120			-.1020		-.0740				
40.000			.3390	-.2420	-.1310	-.1100			-.0740		-.0590	-.0080	-.0680	-.1620	-.2070
55.000			.3350	-.2260	-.1360	.0350			.0350		-.1100				
70.000			.3090	-.2260	-.1620	.1300			.0650		-.1460	-.3860	-.3280	-.1560	-.0670
90.000		.8500	.2630	-.2210	-.1210	.1990			.1090		-.1930	-.4230	-.3770	-.1360	-.0670
120.000			.2470	-.1550	.0460	.3520			.1510		-.2560	-.4770	-.3630	-.1840	-.0810
142.000										-.4840					
150.000			.2750	-.0700	.1900	.6430			.4180		-.4070	-.3730	-.2820	-.2230	-.0590
157.000								.6130							
165.000									.3080						
169.000											-.5940	-.3520	-.2310	-.2080	-.0740
172.000							.9570		.3400						
180.000	1.3250	.8360	.2370	.0520	.2590	.8630			.5970		-.5170	-.4160	-.2460	-.2060	-.0850

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0670							.0410		-.0860
40.000	.0530	.1450		-.1340	-.1400	-.3570	-.2090			-.1640
70.000		-.1000	-.0420	.0030	.0480	-.0910	-.1530	-.1520		
90.000		-.0790	.0280	.0600	-.0100	-.0840	-.1720	-.1500		
105.000				.0660	-.0290	-.1030	-.1760	-.1600		
110.000									-.2410	
120.000		-.0600	.1440	.2270	-.0890	-.2530	-.1320	-.1440	-.2000	
135.000				.6920	.2930	-.2080	-.1730	-.1370		
150.000		-.0420	.1150	.4080	.3860	-.0130	-.0860	-.1280		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + 33 + T9 ORBITER FUSELAGE (RBMB06)

MACH (4) = 1.248 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
185.000		-.0350		.4440	.4760	.0990	-.0180	-.2860		
180.000		-.0510	.0750	.3090						

MACH (4) = 1.247 BETAT (6) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0070	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
000	1.3310	.9410	.0000	-.2800	-.0840	-.1540			-.1590		.1460	.1130	-.0210	-.1400	-.2370
20 000			.2930	-.2820	-.1510	-.1170			-.1300		.1250				
40.000			.2820	-.2590	-.1610	-.1000			-.0860		-.0500	-.0440	-.1140	-.1930	-.2320
55.000			.2500	-.2780	-.1680	.0230			.0070		-.1290				
70.000			.2150	-.3030	-.2270	.1160			.0450		-.1910	-.4240	-.3460	-.1800	-.0840
90.000		.7680	.1820	-.2890	-.1920	.1790			.0760		-.2410	-.4600	-.4290	-.1520	-.0610
120.000			.1820	-.2060	-.0050	.3080			.0840		-.3040	-.5110	-.4010	-.2070	-.0650
142.000										-.5190					
150.000			.2360	-.0900	.1790	.5940			.3670		-.4840	-.4090	-.2630	-.2340	-.0620
157.000								.5440							
162.000									.2590						
165.000											-.6150	-.4140	-.2150	-.2330	-.1300
169.000									.3310						
172.000							.9220								
180.000	1.3310	.8320	.2280	.0570	.2840	.8430			.5850		-.5260	-.3620	-.3050	-.2050	-.1370

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0740							.0280		-.0680
40.000	.0910	.0510		-.1560	-.1390	-.2560	-.1860			-.1800
70.000		-.0690	-.0270	.0180	.0420	-.1060	-.1670	-.1380		
90.000		-.0620	.0430	.0630	-.0050	-.1010	-.1870	-.1410		
105.000				.0440	-.0680	-.1240	-.1880	-.1460		
110.000									-.2370	
120.000		-.0690	.1400	.2070	-.1380	-.3090	-.1660	-.1640	-.1950	
135.000				.7440	.2720	-.2540	-.2460	-.2210		
150.000		-.0470	.0580	.3500	.3910	-.0170	-.1240	-.1710		
169.000		-.0860		.4480	.4660	.0330	-.0620	-.2940		
180.000		-.1210	.0480	.2670						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (*BMSCS)

MACH (4) = 1.248 BETAT (7) = 6.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3060	.9170	.0000	-.2730	-.0500	-.1990			-.2220		.1510	.1030	-.0160	-.1690	-.2960
20.000			.2620	-.2750	-.1400	-.1850			-.1790		.1540				
40.000			.2180	-.2890	-.1860	-.0870			-.1100		.0110	-.0680	-.1560	-.2530	-.3700
55.000			.1660	-.3550	-.2460	.0180			-.0130		-.1550				
70.000			.1280	-.3620	-.2930	.1060			.0380		-.2240	-.4440	-.3770	-.2100	-.0690
90.000		.6850	.0980	-.3510	-.2600	.1620			.0480		-.2710	-.5040	-.4470	-.1790	-.0650
120.000			.1180	-.2540	-.0370	.2640			.0240		-.3450	-.5310	-.4220	-.2370	-.0750
142.000										-.5550					
150.000			.1840	-.1140	.1320	.5310			.3030		-.5300	-.4410	-.2750	-.2510	-.0920
157.000								.4690							
162.000									.2090						
165.000											-.6240	-.4610	-.2420	-.2770	-.2070
169.000									.3130						
172.000							.8680								
180.000	1.3060	.7790	.2010	.0560	.2470	.6310			.5610		-.5290	-.3480	-.3520	-.2190	-.2690

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0260							.0500		-.0820
40.000	.0480	-.0180		-.0960	-.1680	-.2210	-.2020			-.2180
70.000		-.0600	.0390	.0690	.0670	-.0920	-.1660	-.1710		
90.000		-.0490	.0990	.0870	.0370	-.0920	-.1890	-.1690		
105.000				.1090	-.0690	-.1250	-.1660	-.1820		
110.000									-.2620	
120.000		-.0690	.1660	.2080	-.1550	-.3010	-.1690	-.1810	-.2360	
135.000				.7290	.3010	-.2600	-.2740	-.2600		
150.000		-.0990	.0640	.2430	.3300	-.0030	-.1090	-.1640		
165.000		-.1240		.3200	.4290	.0100	-.0770	-.3130		
180.000		-.2250	.0430	.1650						

MACH (4) = 1.248 BETAT (8) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2530	.8920	.0000	-.2610	-.0460	-.2460			-.2700		.0390	.1040	-.0220	-.1530	-.3160
20.000			.2190	-.3030	-.0770	-.2600			-.2320		.1330				
40.000			.1470	-.3390	-.2470	-.1430			-.1320		.0440	-.0910	-.2200	-.3180	-.2140
55.000			.0880	-.3990	-.3100	.0040			-.0350		-.1690				
70.000			.0350	-.4180	-.3550	.0980			.0170		-.2430	-.4540	-.4000	-.2260	-.0620
90.000		.5980	.0170	-.4090	-.3200	.1500			.0180		-.2970	-.5190	-.4600	-.1960	-.0670
120.000			.0530	-.3010	-.0880	.2220			-.0370		-.3780	-.5480	-.4210	-.2700	-.0910

AMES 11-707 IA9 O2A + 33 + 79 ORBITER FUSELAGE (RBMB06)

MACH (4) = 1.248 BETAT (8) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5820					
150.000			.1410	-.1200	.0740	.4610			.2360		-.5670	-.4620	-.2920	-.2570	-.2200
157.000								.4040							
162.000									.1790						
165.000											-.6210	-.4720	-.3040	-.3450	-.2870
169.000									.2930						
172.000							.8040								
190.000	1.2530	.7940	.1880	.0760	.2140	.7610			.5370		-.5530	-.3370	-.3310	-.3690	-.3740

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0560							.0860		-.1090
40.000	.0280	-.0290		-.2140	-.2180	-.2150	-.1890			-.2580
70.000		-.0040	-.0060	.0310	.0700	-.0990	-.1820	-.1940		
90.000		.0050	.0550	.0860	.0030	-.1120	-.2000	-.1890		
105.000				.0820	-.1020	-.1510	-.1960	-.2010		
110.000									-.2760	
120.000		.0020	.1290	.1580	-.2030	-.3610	-.2070	-.2150	-.2570	
135.000				.7290	.3020	-.3000	-.3230	-.3430		
150.000		-.1770	-.0110	.1680	.1900	-.0490	-.1750	-.2310		
165.000		-.1430		.3210	.3770	-.0410	-.1350	-.3490		
180.000		-.2690	.0220	.1750						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A (RBM807) (04 AUG 73)

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	.000	ORBINC =	.500
RUDDER =	.000	ELEVON =	.000
RUDFLR =	.000		

MACH (1) = .597 BETAT (1) = -8.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0020	.4350	.0000	-.7460	-.2280	-.1770			-.1900		-.2020	-.1940	-.1590	-.1340	-.0650
20.000			-.2090	-.6190	-.2510	-.1710			-.1730		-.1900				
40.000			.1040	-.3240	-.1180	-.1970			-.1960		-.2100	-.1550	-.0840	-.0240	.0680
55.000			.2590	-.1200	.0790	.0870			.0580		-.0160				
70.000			.2910	-.0420	.1060	.1240			.0670		-.0490	-.3270	-.0690	.0070	.0040
90.000		.8590	.2730	-.0180	.1570	.1420			.0750		-.0800	-.3940	-.0770	-.0180	-.0370
120.000			.1810	.0340	.1900	.2230			.1380		-.2360	-.3040	-.1170	-.0680	-.0620
142.000										-.3490					
150.000			.0690	.0050	.1560	.4000			-.0280		-.6140	-.2210	-.1250	-.0840	-.0690
157.000								.3710							
162.000									-.1500						
165.000											-.4340	-.1820	-.1000	-.0600	-.0470
169.000									-.3240						
172.000							.5510								
180.000	1.0020	.4130	-.2010	-.0850	.0460	.4140			.0130		-.6370	-.2830	-.2870	-.3080	-.2460

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0170							-.1270		-.0550
40.000	.1230	.1210		-.2880	-.4530	-.2930	-.1440			-.1340
70.000		-.1470	-.1150	-.0390	.0920	.0300	.0260	-.0370		
90.000		-.1010	-.0290	.0480	.0750	-.0180	-.0280	-.0750		
105.000				.1390	.0380	-.0220	-.0490	-.1040		
110.000									-.2200	
120.000		-.0820	.0980	.3460	-.0520	-.0840	-.0410	-.0690	-.1400	
135.000				.2320	-.0410	-.1510	-.0860	-.1450		
150.000		-.0550	.0690	.0670	-.1520	-.0850	-.0610	-.1800		
165.000		-.0250		.1240	.1120	.0100	-.0450	-.2870		
180.000		-.1760	-.0820	-.0560						

DATE 13 SEP 78 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (1) = [illegible] BETAT (2) = -6.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0520	.4990	.0000	-.7010	-.1850	-.1330			-.1430		-.1600	-.1510	-.1180	-.0800	-.0310
20.000			-.2170	-.5900	-.2040	-.1280			-.1310		-.1540				
40.000			.0380	-.3480	-.1060	-.1520			-.1550		-.1820	-.1440	-.0720	-.0130	.0820
55.000			.1570	-.1860	.0460	.0540			.0220		-.0540				
70.000			.1940	-.1230	.0580	.0800			.0310		-.0840	-.3550	-.0850	-.0040	-.0060
90.000		.7920	.1640	-.1050	.1170	.0980			.0320		-.1130	-.4190	-.0910	-.0240	-.0400
120.000			.1090	-.0230	.1580	.1870			.0710		-.2540	-.3050	-.1100	-.0580	-.0500
142.000										-.3790					
150.000			.0360	-.0090	.1570	.3880			-.0580		-.5880	-.2160	-.1130	-.0710	-.0540
157.000								.3410							
162.000									-.1820						
165.000											-.4410	-.1870	-.0960	-.0560	-.0420
169.000									-.3190						
172.000							.5730								
180.000	1.0520	.4910	-.1790	-.0610	.0760	.4510			.0390		-.5970	-.2450	-.2410	-.1860	-.1740

X/LB	.5375	.6828	.7590	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0300							-.1110		-.0310
40.000	.1080	.0900		-.2750	-.4170	-.2520	-.1200			-.1440
70.000		-.1570	-.1380	-.0680	.0630	.0080	.0050	-.0470		
90.000		-.1090	-.0440	.0170	.0380	-.0380	-.0430	-.0790		
105.000				.0910	-.0100	-.0410	-.0670	-.1120		
110.000									-.2250	
120.000		-.0670	.0960	.2830	-.1260	-.1080	-.0600	-.0820	-.1570	
135.000				.2900	-.0290	-.1520	-.0890	-.1410		
150.000		-.0380	.0830	.1150	-.1160	-.1050	-.0900	-.1910		
165.000		-.0240		.1420	.1200	-.0260	-.0850	-.2810		
180.000		-.1250	-.0300	.0080						

MACH (1) = .598 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0870	.4850	.0000	-.6830	-.1520	-.0990			.1160		-.1350	-.1140	-.0820	-.0460	-.0010
20.000			-.2370	-.5870	-.1660	-.1050			-.1100		-.1320				
40.000			-.0310	-.3930	-.1060	-.1220			-.1340		-.1710	-.1390	-.0640	-.0080	.0540
55.000			.0640	-.2690	.0040	.0170			-.0130		-.0820				
70.000			.0850	-.2060	.0040	.0430			-.0100		-.1220	-.3330	-.0980	-.0220	-.0140
90.000		.7160	.0560	-.1860	.0620	.0590			-.0140		-.1470	-.4250	-.1060	-.0340	-.0280
120.000			.0390	-.0750	.1190	.1410			-.0050		-.2730	-.3180	-.1080	-.0470	-.0370

DATE '3 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (1) = .598 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.4170					
142.000									-.1040		-.5620	-.2080	-.1100	-.0630	-.0370
150.000			.0110	-.0260	.1480	.3700		.3020							
157.000									-.2250						
162.000											-.4580	-.1630	-.1000	-.0530	-.0380
165.000									-.3190						
169.000							.5900								
172.000									.0690		-.5860	-.2100	-.2010	-.1030	-.0680
180.000	1.0670	.4650	-.1550	-.0410	.1030	.4870									

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI								-.0970		-.0060
	.0520									-.1400
40.000	.0930	.0550		-.2570	-.3640	-.2270	-.1260			
70.000		-.1640	-.1550	-.0950	.0330	-.0160	-.0120	-.0590		
90.000		-.1130	-.0630	-.0210	-.0030	-.0640	-.0600	-.0970		
105.000				.0370	-.0490	-.0640	-.0880	-.1260		
110.000									-.2350	
120.000		-.0600	.0950	.2140	-.1970	-.1380	-.0760	-.0920	-.1650	
135.000				.3370	-.0270	-.1680	-.1050	-.1490		
150.000		-.0310	.0960	.1520	-.0760	-.1360	-.1230	-.2050		
165.000		-.0170		.1510	.1270	-.0780	-.1330	-.2820		
180.000		-.0790	.0160	.0630						

MACH (1) = .595 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI									-.0930		-.1100	-.0970	-.0630	-.0200	.0240
.000	1.0870	.5180	.0000	-.6590	-.1330	-.0800			-.0930		-.1140				
20.000			-.2660	-.5810	-.1480	-.0880			-.1090		-.1600	-.1320	-.0560	-.0120	.0450
40.000			-.1060	-.4380	-.1060	-.0950			-.0470		-.1130				
55.000			-.0360	-.3440	-.0360	-.0130			-.0470		-.1500	-.4040	-.1150	-.0300	-.0180
70.000			-.0340	-.2930	-.0400	.0040			-.0580		-.1790	-.4530	-.1120	-.0390	-.0430
90.000		.6350	-.0590	-.2710	.0080	.0090			-.0800		-.2880	-.3050	-.1080	-.0480	-.0330
120.000			.0420	-.1380	.0740	.0940				-.4620					
142.000									-.1520		-.5380	-.2030	-.1030	-.0540	-.0320
150.000			-.0350	-.0450	.1300	.3410		.2510							
157.000									-.2790						
162.000											-.4740	-.1840	-.0980	-.0480	-.0260
165.000									-.3320						
169.000							.5910								
172.000															

AMES 11-FOOT DA9 C2A - S3 - T9 ORBITER FUSELAGE (R8MB07)

MACH (1) = .595 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0870	.4790	-.1420	-.0260	.1210	.5060			.0860		-.5670	-.1820	-.1560	-.0670	-.0470
X/LB	.5873	.6626	.7380	.7869	.8233	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0630							-.0840		.0120					
40.000	.0720	.0140		-.2600	-.3250	-.1930	-.0910			-.1440					
70.000		-.1660	-.1690	-.1230	.0000	-.0430	-.0270	-.0680							
90.000		-.1110	-.0740	-.0610	-.0420	-.0870	-.0770	-.1040							
105.000				-.0200	-.0970	-.0870	-.1020	-.1340							
110.000									-.2380						
120.000		-.0550	.0900	.1300	-.2730	-.1700	-.1000	-.1060	-.1690						
135.000				.3660	-.0310	-.1910	-.1250	-.1580							
150.000		-.0170	.1060	.1890	-.0380	-.1720	-.1550	-.2190							
165.000		-.0100		.1720	.1290	-.1180	-.1750	-.2750							
180.000		-.0210	.0350	.0950											

MACH (1) = .595 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0920	.5100	.0000	-.6590	-.1300	-.0770			-.0870		-.1090	-.0930	-.0590	-.0110	.0280
20.000			-.3080	-.5940	-.1360	-.0770			-.0900		-.1200				
40.000			-.2070	-.4850	-.1300	-.0880			-.1050		-.1610	-.1410	-.0650	-.0260	.0340
55.000			-.1660	-.4330	-.0820	-.0490			-.0810		-.1400				
70.000			-.1670	-.3840	-.0950	-.0430			-.0900		-.1800	-.4240	-.1270	-.0390	-.0210
90.000		.5320	-.1940	-.3660	-.0470	-.0420			-.1090		-.2140	-.4680	-.1230	-.0440	-.0360
120.000			-.1380	-.2130	.0180	.0300			-.1720		-.3090	-.3120	-.1080	-.0460	-.0260
142.000										-.5090					
150.000			-.0750	-.0850	.0980	.2900			-.2070		-.5190	-.2100	-.1060	-.0530	-.0270
157.000								.1740							
162.000									-.3550						
165.000											-.4850	-.1860	-.0990	-.0520	-.0430
169.000									-.3510						
172.000							.5790								
180.000	1.0920	.4890	-.1310	-.0240	.1300	.5150			.0910		-.5630	-.1800	-.1350	-.0600	-.0320
X/LB	.5873	.6626	.7380	.7969	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0680							-.0870		.0120					
40.000	.0460	-.0350		-.2470	-.2900	-.1760	-.0790			-.1480					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (1) = .597 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1670	-.1850	-.1540	-.0390	-.0680	-.0520	-.0840		
90.000		-.1130	-.0900	-.1030	-.0870	-.1160	-.1010	-.1180		
105.000				-.0920	-.1460	-.1390	-.1260	-.1490		
110.000									-.2490	
120.000		-.0540	.0700	.0120	-.3730	-.2080	-.1260	-.1310	-.1840	
135.000				.3970	-.0670	-.2380	-.1540	-.1790		
150.000		-.0160	.1120	.2300	-.0080	-.2200	-.1990	-.2410		
165.000		-.0130		.1940	.1340	-.1800	-.2180	-.2730		
180.000		-.0120	.0700	.1010						

MACH (1) = .597 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0810	.5050	.3000	-.6740	-.1320	-.0830			-.0940		-.1070	-.0940	-.0610	-.0180	.0240
20.000			-.3550	-.6130	-.1330	-.0880			-.0970		-.1260				
40.000			-.2970	-.5430	-.1390	-.0910			-.1070		-.1740	-.1510	-.0750	-.0320	.0220
55.000			-.2860	-.5270	-.1240	-.0810			-.1160		-.1670				
70.000			-.3090	-.4830	-.1390	-.0770			-.1270		-.2100	-.4430	-.1340	-.0510	-.0230
90.000		.4270	-.3260	-.4540	-.0980	-.0840			-.1520		-.2440	-.4760	-.1260	-.0470	-.0390
120.000			-.2330	-.2900	-.0420	-.0260			-.2680		-.3190	-.3120	-.1170	-.0520	-.0270
142.000										-.5790					
150.000			-.1340	-.1310	.0590	.2380			-.2750		-.4940	-.2120	-.1070	-.0570	-.0320
157.000								.0690							
162.000									-.4360						
165.000											-.4920	-.1810	-.1010	-.0550	-.0430
169.000									-.3780						
172.000							.5510								
180.000	1.0810	.4920	-.1340	-.0290	.1250	.5060			.0780		-.5700	-.1750	-.1450	-.0580	-.0420

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0600							-.0870		-.0310
40.000	.0210	-.0750		-.2510	-.2680	-.1760	-.1010			-.1720
70.000		-.1700	-.1930	-.1780	-.0710	-.0950	-.0680	-.0940		
90.000		-.1110	-.1100	-.1390	-.1270	-.1370	-.1180	-.1310		
109.000				-.1460	-.1890	-.1440	-.1470	-.1650		
110.000									-.2530	
120.000		-.0570	.0580	-.0800	-.4610	-.2480	-.1520	-.1500	-.1960	
135.000				.3740	-.1030	-.2940	-.2000	-.2060		
150.000		-.0220	.1070	.2750	.0140	-.2730	-.2370	-.2600		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (1) = .397 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0230		.1920	.1300	-.2110	-.2680	-.2740		
180.000		-.0250	.0580	.1000						

MACH (1) = .599 BETAT (7) = 4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0680	.4600	.0070	-.6940	-.1560	-.1030			-.1120		-.1320	-.1240	-.0880	-.0430	.0020
20.000			-.4260	-.6580	-.1570	-.1100			-.1140		-.1490				
40.000			-.4110	-.6010	-.1680	-.1070			-.1240		-.1990	-.1720	-.0990	-.0570	-.0010
55.000			-.4200	-.6020	-.1620	-.1160			-.1450		-.1900				
70.000			-.4430	-.5840	-.1630	-.1140			-.1620		-.2360	-.4560	-.1440	-.0520	-.0270
90.000		.3130	-.4540	-.5480	-.1480	-.1260			-.2000		-.2710	-.4810	-.1330	-.0480	-.0390
120.000			-.3580	-.3650	-.1020	-.0960			-.3580		-.3590	-.3300	-.1210	-.0800	-.0340
142.000										-.7280					
150.000			-.1930	-.1780	.0080	.1700			-.3410		-.4910	-.2230	-.1210	-.0680	-.0400
157.000								-.0100							
162.000									-.5240						
165.000											-.5050	-.1890	-.1130	-.0680	-.0710
169.000									-.4190						
172.000							.5050								
180.000	1.0680	.4670	-.1470	-.0380	.1050	.4800			.0560		-.5830	-.2030	-.1710	-.0910	-.0860

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0490							-.0950		-.0670
40.000	.0030	-.1070		-.2010	-.2070	-.1440	-.1160			-.2130
70.000		-.1670	-.2110	-.2070	- 40	-.1230	-.0940	-.1200		
90.000		-.1150	-.1320	-.1820	1590	-.1660	-.1410	-.1490		
105.000				-.1880	-.2410	-.1900	-.1680	-.1820		
110.000									-.2710	
120.000		-.0670	.0300	-.1780	-.5680	-.2920	-.1810	-.1750	-.2160	
135.000				.3860	-.1700	-.3780	-.2560	-.2400		
150.000		-.0310	.0820	.2840	.0180	-.3240	-.2810	-.2900		
165.000		-.0500		.1840	.1240	-.3520	-.3280	-.2820		
180.000		-.0670	.0160	.0540						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (1) = .597 BETAT (8) = 6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	1.0390	.4490	.0000	-.7120	-.1810	-.1330			-.1440		-.1660	-.1500	-.1220	-.0660	-.0370
20.000			-.4780	-.6910	-.1820	-.1410			-.1500		-.1650				
40.000			-.5120	-.6640	-.2030	-.1380			-.1570		-.2520	-.2000	-.1260	-.0720	-.0200
55.000			-.5410	-.6970	-.2060	-.1450			-.1690		-.2110				
70.000			-.5840	-.6820	-.2240	-.1450			-.1870		-.2530	-.4600	-.1440	-.0540	-.0300
90.000		.1980	-.5950	-.6480	-.1950	-.1710			-.2370		-.2930	-.4770	-.1340	-.0560	-.0370
120.000			-.4590	-.4560	-.1630	-.1640			-.4470		-.3530	-.3320	-.1330	-.0690	-.0400
142.000										-.9210					
150.000			-.2690	-.2470	-.0520	.0870			-.4090		-.4660	-.2390	-.1370	-.0780	-.0430
157.000								-.1230							
162.000									-.6340						
165.000											-.5400	-.2030	-.1360	-.1140	-.1040
169.000									-.4610						
172.000							.4480								
180.000	1.0390	.4490	-.1750	-.0750	.0720	.4370			.0210		-.6110	-.2330	-.1970	-.1710	-.1610

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0280							-.1180		-.1130
40.000	-.0080	-.1130		-.1900	-.2030	-.1530	-.1160			-.2720
70.000		-.1730	-.2290	-.2360	-.1310	-.1490	-.1210	-.1460		
90.000		-.1250	-.1550	-.2140	-.1910	-.1960	-.1690	-.1690		
105.000				-.2320	-.2600	-.2250	-.1980	-.2000		
110.000									-.2830	
120.000		-.0810	-.0010	-.2590	-.6740	-.3330	-.2160	-.1990	-.2370	
135.000				.3810	-.2220	-.4530	-.3150	-.2820		
150.000		-.0540	.0460	.2290	.0110	-.3670	-.3250	-.3020		
165.000		-.0940		.1570	.0910	-.4490	-.3820	-.2910		
180.000		-.1300	-.0450	-.0110						

MACH (1) = .597 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	.9960	.4080	.0000	-.7330	-.2190	-.1750			-.1830		-.2050	-.1850	-.1570	-.0870	-.0870
20.000			-.5480	-.7420	-.2210	-.1740			-.1850		-.2200				
40.000			-.6190	-.7300	-.2430	-.1740			-.1890		-.2650	-.2270	-.1500	-.0930	-.0250
55.000			-.6740	-.7830	-.2410	-.1690			-.1900		-.2250				
70.000			-.7130	-.7910	-.2570	-.1670			-.2070		-.2650	-.4540	-.1450	-.0480	-.0250
90.000		.0770	-.7280	-.7350	-.2330	-.2060			-.2670		-.3100	-.4670	-.1340	-.0570	-.0370
120.000			-.5550	-.5380	-.2310	-.2370			-.5350		-.3580	-.3350	-.1450	-.0740	-.0410

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (1) = .597 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.0830					
150.000			-.3370	-.3070	-.1120	-.0020			-.4790		-.4850	-.2520	-.1500	-.0800	-.0800
157.000								-.2490							
162.000									-.7420						
165.000											-.5940	-.2260	-.1790	-.1640	-.1530
169.000									-.5080						
172.000							.3700								
180.000	.9960	.4250	-.1850	-.1010	.0370	.3840			-.0240		-.6820	-.2770	-.2420	-.2810	-.2330

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0220							-.1220		-.1540
40.000	-.0030	-.0900		-.2180	-.2450	-.1710	-.1750			-.2300
70.000		-.1720	-.2420	-.2570	-.1490	-.1780	-.1500	-.1780		
90.000		-.1250	-.1650	-.2340	-.2140	-.2240	-.2000	-.1920		
105.000				-.2640	-.3210	-.2580	-.2260	-.2280		
110.000									-.2980	
120.000		-.0910	-.0250	-.3100	-.7530	-.3680	-.2480	-.2290	-.2600	
135.000				.3920	-.2490	-.5340	-.3660	-.3100		
150.000		-.1080	-.0250	.1170	-.0540	-.4040	-.3500	-.3050		
165.000		-.1530		.1000	.0290	-.5470	-.4640	-.3010		
180.000		-.1920	-.1030	-.0510						

MACH (2) = .900 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1630	.6700	.0000	-.8670	-.3350	-.1450			-.1700		-.2480	-.3490	-.2720	-.1010	-.0020
20.000			.0670	-.6720	-.3800	-.1610			-.1490		-.2350				
40.000			.2840	-.4010	-.1760	-.2270			-.2000		-.2730	-.3410	-.1280	.0040	.1270
55.000			.3670	-.2100	.0490	.0980			.0810		-.0220				
70.000			.3850	-.1340	.0860	.1520			.1080		-.0420	-.6210	-.0720	.0470	.0620
90.000		.9590	.3280	-.1210	.1600	.1970			.1280		-.0570	-.7530	-.1010	.0270	.0210
120.000			.2170	-.0420	.2040	.3160			.2210		-.1820	-.8340	-.3960	-.0260	-.0110
142.000										-.5150					
150.000			.0980	-.0540	.1760	.5270			.2280		-.6470	-.6530	-.0910	-.0430	-.0090
157.000								.5540							
162.000									.1160						
165.000											-.5520	-.4440	-.2480	-.0350	.0270
169.000									-.0950						
172.000							.7280								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7OT IA9 OBA + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (2) = .900 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1630	.5480	-.1750	-.1560	.0530	.5630			.2390		-1.1290	-.5160	-.3670	-.2320	-.1730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1310							-.0980		-.0340
40.000	.2300	.2940		-.0500	-.2330	-.2760	-.1650			-.1330
70.000		-.1420	-.1930	-.0660	.0880	.0650	.0990	.0620		
90.000		-.1030	-.0870	.0530	.0410	.0210	.0570	.0430		
105.000				.1510	-.0070	-.0030	.0330	.0140		
110.000									-.2240	
120.000		-.09	.0910	.3940	-.1300	-.0490	.0430	.0250	-.1510	
135.000				.3240	.0010	-.0820	.0140	-.0450		
150.000		-.0520	.1180	.1400	-.1100	-.0100	.0340	-.1080		
165.000		-.0190		.1860	.1490	.0650	.0530	-.3090		
180.000		-.1160	.0010	.0530						

MACH (2) = .899 BETAT (2) = -6.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1890	.6970	.0000	-.8970	-.3330	-.1050			-.1310		-.2220	-.3240	-.1580	-.0850	.0330
20.000			.0470	-.7190	-.3840	-.1180			-.1220		-.2110				
40.000			.2200	-.5170	-.2310	-.1630			-.1640		-.2540	-.3330	-.1100	.0040	.1180
55.000			.2880	-.3630	-.0250	.0750			.0420		-.0620				
70.000			.2820	-.2870	.0070	.1200			.0570		-.0850	-.6510	-.1000	.0390	.0850
90.000		.9000	.2190	-.2500	.0920	.1550			.0730		-.1060	-.7740	-.1290	.0240	.0170
120.000			.1330	-.1310	.1570	.2830			.1530		-.2100	-.8460	-.1080	-.0090	.0110
142.000										-.5330					
150.000			.0440	-.1350	.1590	.5190			.2100		-.6380	-.6390	-.0790	-.0205	.0000
157.000								.5330							
162.000									.0950						
165.000											-.6920	-.5410	-.0670	.0130	.0110
169.000									-.0770						
172.000							.7500								
180.000	1.1890	.5550	-.1930	-.1720	.0750	.5980			.2570		-1.1610	-.4740	-.0180	-.0820	-.1370

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1330							-.0950		-.0190
40.000	.2000	.2470		-.0820	-.2510	-.2500	-.1640			-.1200

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RRNB07)

MACH (2) = .899 BETAT (2) = -6.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1430	-.1960	-.1180	.0340	.0230	.0770	.0470		
90.000		-.1040	-.0850	.0050	-.0250	-.0200	.0340	.0250		
105.000				.0930	-.0860	-.0450	.0090	-.0060		
110.000									-.2310	
120.000		-.0790	.0970	.3190	-.2330	-.1070	.0160	-.0020	-.1600	
135.000				.3640	-.0010	-.1150	-.0070	-.0630		
150.000		-.0330	.1250	.1790	-.0780	-.0580	-.0060	-.1390		
165.000		-.0110		.1980	.1540	.0110	-.0060	-.3110		
180.000		-.0850	.0450	.0940						

MACH (2) = .899 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2060	.7230	.0000	-.9030	-.5410	-.0640			-.1010		-.1940	-.2940	-.1240	-.0230	.0880
20.000			.0210	-.7520	-.4220	-.0810			-.0990		-.1960				
40.000			.1560	-.6003	-.2960	-.1180			-.1390		-.2390	-.3230	-.0910	.0120	.1080
55.000			.2010	-.5170	-.1070	.0470			-.0010		-.1050				
70.000			.1870	-.4630	-.0660	.0620			.0110		-.1330	-.6770	-.1070	.0280	.0430
80.000		.8370	.1180	-.4200	.0210	.1150			.0190		-.1530	-.7940	-.1520	.0220	.0120
120.000			.0550	-.2240	.1110	.2450			.0770		-.2160	-.8650	-.1020	.0040	.0110
142.000										-.7580					
150.000			.0040	-.1810	.1450	.5030			.1650		-.6780	-.6370	-.0680	-.0090	.0110
157.000								.4980							
162.000									.0640						
165.000											-.8760	-.4930	-.0750	.0060	.0110
169.000									-.0610						
172.000							.7850								
180.000	1.2080	.9700	-.1900	-.1650	.1030	.6290			.2760		-1.2120	-.3890	-.2530	-.0340	-.0290

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1420							-.0920		-.0180
40.000	.1800	.1980		-.1200	-.2720	-.2510	-.1530			-.1200
70.000		-.1440	-.1930	-.1560	-.0290	-.0200	.0340	.0270		
90.000		-.1020	-.0830	-.0450	-.0970	-.0690	.0090	.0030		
109.000				.0350	-.1590	-.0960	-.0180	-.0290		
110.000									-.2470	
120.000		-.0610	.0980	.2420	-.3290	-.1460	-.0100	-.0280	-.1700	
135.000				.3930	-.0090	-.1580	-.0410	-.0850		
150.000		-.0210	.1330	.2180	-.0320	-.1180	-.0590	-.1730		

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM007)

MACH (2) = .899 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0070		.2:?0	.1530	-.0630	-.0640	-.3100		
180.000		-.0540	.0680	.1290						

MACH (2) = .901 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2140	.7140	.0000	-.9020	-.5650	-.0390			-.0820		-.1840	-.2490	-.1110	.0010	.0820
20.000			.0020	-.7730	-.5800	-.0520			-.0830		-.1960				
40.000			.0990	-.6480	-.2650	-.0810			-.1150		-.2380	-.3140	-.0930	.0140	.0970
55.000			.1250	-.6030	-.1660	.0180			-.0350		-.1590				
70.000			.0990	-.6060	-.1220	.0480			-.0310		-.1990	-.6970	-.1300	.0250	.0960
90.000		.7670	.0310	-.5010	-.0400	.0710			-.0310		-.2350	-.8070	-.1730	.0240	.0100
120.000			-.0230	-.3830	.0590	.2000			-.0060		-.4220	-.8760	-.0930	.0180	.0180
142.000										-.9650					
150.000			-.0420	-.2630	.1280	.4750			.1520		-.7790	-.6270	-.0670	.0100	.0200
157.000								.4520							
162.000									.0230						
165.000											-.9910	-.5160	-.0790	.0200	.0110
169.000									-.0550						
172.000							.7850								
180.000	1.2140	.5730	-.1890	-.1810	.1210	.6450			.2690		-1.2090	-.3780	-.1950	.0070	.0070

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1460							-.0730		-.0720
40.000	.1570	.1430		-.1470	-.2900	-.2160	-.1170			-.1660
70.000		-.1380	-.1900	-.1860	-.0960	-.0800	.0200	.0050		
90.000		-.0920	-.0790	-.0870	-.1740	-.1280	-.0240	-.0210		
105.000				-.0190	-.2430	-.1530	-.0430	-.0540		
110.000									-.2520	
120.000		-.0450	.1030	.1520	-.3940	-.1880	-.0470	-.0560	-.1780	
135.000				.4000	-.0100	-.2200	-.0840	-.1130		
150.000		-.0120	.1360	.2530	.0050	-.2020	-.1050	-.2020		
165.000		-.0040		.2230	.1590	-.1470	-.1180	-.3050		
180.000		-.0030	.0940	.1450						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBM807)

MACH (2) = .901 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2180	.7310	.0000	-.9100	-.5580	-.0290			-.0780		-.1880	-.2340	-.1020	.0110	.0860
20.000			-.0350	-.8050	-.6180	-.0370			-.0760		-.2090				
40.000			.0320	-.7030	-.5000	-.0540			-.0990		-.2560	-.3040	-.0900	.0100	.0870
55.000			.0380	-.6880	-.1550	-.0030			-.0690		-.2320				
70.000			.0030	-.7050	-.1350	.0150			-.0730		-.2980	-.7170	-.1290	.0220	.0300
90.000		.6880	-.0640	-.6930	-.0710	.0260			-.0820		-.3490	-.8270	-.1530	.0250	.0110
120.000			-.0920	-.4990	.0020	.1400			-.0930		-.5180	-.8750	-.0790	.0250	.0250
142.000										-1.0960					
150.000			-.0830	-.3390	.0920	.4340			.1110		-.8270	-.5770	-.1170	.0240	.0190
157.000								.3870							
162.000									-.0300						
165.000											-.8910	-.5860	-.0840	.0460	.0190
169.000									-.0590						
172.000							.7320								
180.000	1.2180	.5830	-.1840	-.1830	.1280	.6510			.2910		-1.2000	-.4840	-.0530	.0180	.0150
X/LB	.5875	.6528	.7560	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1930							-.0730		.0240					
40.000	.1310	.0780		-.1720	-.3020	-.2070	-.1130			-.1580					
70.000		-.1230	-.1850	-.2080	-.1540	-.1540	-.0150	-.0190							
90.000		-.0790	-.0780	-.1270	-.2350	-.2400	-.0560	-.0440							
105.000				-.0750	-.3090	-.3320	-.0770	-.0760							
110.000									-.2640						
120.000		-.0320	.0980	.0450	-.4660	-.4880	-.0820	-.0850	-.1920						
135.000				.4140	-.0230	-.4970	-.1410	-.1530							
150.000		.0010	.1360	.2900	.0400	-.3310	-.1780	-.2420							
165.000		.0050		.2400	.1670	-.2410	-.1950	-.2950							
180.000		.0030	.1070	.1530											

MACH (2) = .901 BETAT (6) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2160	.7140	.0000	-.9080	-.5260	-.0370			-.0790		-.1880	-.2480	-.1030	.0100	.0860
20.000			-.0650	-.8310	-.6450	-.0390			-.0780		-.2140				
40.000			-.0310	-.7560	-.5710	-.0420			-.0940		-.2700	-.3510	-.0820	.0070	.0770
55.000			-.0470	-.7660	-.4750	-.0260			-.0930		-.2820				
70.000			-.0920	-.7990	-.1980	-.0150			-.1050		-.3780	-.7650	-.1470	.0190	.0320
90.000		.6080	-.1520	-.7800	-.0890	-.0120			-.1260		-.4290	-.8490	-.1880	.0230	.0150
120.000			-.1630	-.6020	-.0540	.0840			-.1790		-.5920	-.8580	-.1210	.0240	.0100

DATE 13 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OEA + 83 + T9 ORBITER FUSELAGE (RBMB07)

MACH (2) = .901 BETAT (6) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1530					
150.000			-.1210	-.3660	.0560	.3850			.0640		-.7970	-.5720	-.1710	.0310	.0190
157.000								.3060							
162.000									-.0480						
165.000											-.8510	-.5940	-.1310	.0450	.0090
169.000									-.0660						
172.000							.7250								
180.000	1.2160	.5860	-.1810	-.1670	.1260	.6450			.2630		-1.1960	-.4760	-.1060	.0110	.0080

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1500							-.0660		.0050
40.000	.1120	.0190		-.1920	-.2690	-.2030	-.1040			-.1810
70.000		-.1160	-.1710	-.2320	-.1880	-.3270	-.0610	-.0540		
90.000		-.0650	-.0720	-.1560	-.2720	-.3760	-.1010	-.0790		
105.000				-.1270	-.3490	-.4500	-.1140	-.1020		
110.000									-.2730	
120.000		-.0230	.0650	-.0310	-.5270	-.5270	-.1210	-.1170	-.2100	
135.000				.3930	-.0360	-.5860	-.1920	-.1890		
150.000		.0060	.1310	.3060	.0790	-.4140	-.2800	-.2620		
165.000		-.0010		.2360	.1740	-.3410	-.3080	-.2980		
180.000		-.0050	.0930	.1500						

MACH (2) = .908 BETAT (7) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2050	.7020	.0000	-.9080	-.5330	-.0650			-.0910		-.2030	-.2960	-.1340	-.0130	.0630
20.000			-.1010	-.8540	-.6530	-.0650			-.0920		-.2360				
40.000			-.1010	-.8130	-.6250	-.0520			-.1010		-.3000	-.3820	-.1110	-.0070	.0610
55.000			-.1320	-.8330	-.6150	-.0530			-.1170		-.3200				
70.000			-.1790	-.8750	-.3640	-.0450			-.1370		-.4270	-.8060	-.1910	.0250	.0520
90.000		.5260	-.2330	-.8510	-.1060	-.0540			-.1730		-.4890	-.8810	-.2150	.0240	.0210
120.000			-.2300	-.7000	-.1490	.0160			-.2630		-.6660	-.8130	-.1560	.0190	.0190
142.000										-1.1960					
150.000			-.1620	-.4000	-.0110	.3220			.0070		-.8350	-.5990	-.2370	.0370	.0210
157.000								.2200							
162.000									-.1560						
165.000											-.9470	-.6200	-.2230	.0240	-.0130
169.000									-.0820						
172.000							.6840								

AMES 11-707 IAS 02A + 33 + T9 ORBITER FUSELAGE (RBMB07)

MACH (2) = .908 BETAT (7) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2050	.5860	-.1830	-.1680	.1010	.6210			.2670		-1.1810	-.5270	-.1550	-.0250	-.0260
X/LB	.5373	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1430							-.0830		-.0020					
40.000	.0900	-.0440		-.1670	-.2350	-.1760	-.1350			-.2350					
70.000		-.1030	-.1650	-.2380	-.2110	-.4460	-.1270	-.0840							
90.000		-.0640	-.3760	-.1770	- 2950	-.4970	-.1580	-.1030							
105.000				-.1520	-.3910	-.5110	-.1920	-.1290							
110.000									-.3000						
120.000		-.0280	.0750	-.0870	-.5910	-.5770	-.3000	-.1290	-.2230						
135.000				.4460	-.0330	-.6690	-.4950	-.2100							
150.000		-.0090	.1120	.2610	.0710	-.4300	-.4590	-.3500							
165.000		-.0220		.2260	.1700	-.4030	-.4170	-.3220							
180.000		-.0500	.0630	.1170											

MACH (2) = .901 BETAT (8) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1810	.6790	.0000	-.9050	-.2990	-.1040			-.1250		-.2280	-.3240	-.1520	.0380	.0330
20.000			-.1370	-.8840	-.4520	-.0990			-.1220		-.2650				
40.000			-.1690	-.8580	-.6890	-.0740			-.1250		-.3330	-.4230	-.1090	-.0260	.0480
55.000			-.2200	-.9070	-.7060	-.0750			-.1420		-.3520				
70.000			-.2760	-.9490	-.4720	-.0690			-.1640		-.4710	-.8370	-.1790	.0220	.0370
90.000		.4370	-.3220	-.9220	-.1710	-.0930			-.2100		-.5470	-.8730	-.1850	.0130	.0220
120.000			-.3070	-.7740	-.2490	-.0550			-.3420		-.7310	-.6470	-.2200	.0160	.0180
142.000										-1.2470					
150.000			-.2150	-.4370	-.0750	.2460			-.0620		-.8150	-.5960	-.2775	.0290	-.0030
157.000								.1190							
162.000									-.2240						
165.000											-.8450	-.6200	-.2920	-.0210	-.0470
169.000									-.1070						
172.000							.6200								
180.000	1.1810	.5510	-.1900	-.1650	.0760	.5800			.2390		-1.1050	.5930	-.1940	-.0710	-.1120
X/LB	.5373	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1340							-.1000		-.0190					
40.000	.0820	-.0550		-.1760	-.2030	- 2190	- 1440			2850					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (2) = .901 BETAT (8) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0950	-.1610	-.2470	-.2310	-.4940	-.1500	-.1160		
90.000		-.0560	-.0790	-.1910	-.3140	-.5200	-.2180	-.1270		
105.000				-.1730	-.4300	-.5280	-.2670	-.1560		
110.000									-.2930	
120.000		-.0260	.0680	-.1050	-.6260	-.5970	-.4450	-.1660	-.2330	
135.000				.4500	-.0340	-.7230	-.5720	-.3090		
150.000		-.0410	.0650	.1850	.0430	-.4300	-.5160	-.4320		
165.000		-.0550		.1830	.1330	-.4370	-.4780	-.3260		
180.000		-.0840	.0380	.1000						

MACH (2) = .901 BETAT (9) = 8.220

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.1530	.6760	.0000	-.8970	-.3190	-.1550			-.1600		-.2590	-.3700	-.2840	-.0680	-.0090
20.000			-.1820	-.8980	-.3680	-.1400			-.1580		-.2960				
40.000			-.2410	-.9150	-.6950	-.1110			-.1550		-.3800	-.4890	-.1370	-.0510	.0330
55.000			-.3120	-.9770	-.7560	-.1060			-.1650		-.3810				
70.000			-.3810	-1.0250	-.5400	-.1040			-.1930		-.5070	-.8650	-.1840	.0190	.0450
90.000		.3480	-.4130	-.9950	-.3640	-.1470			-.2550		-.5940	-.8680	-.1690	.0160	.0240
120.000			-.3680	-.8310	-.3630	-.1410			-.4360		-.7960	-.6040	-.2410	.0090	.0210
142.000										-1.2690					
150.000			-.2510	-.4590	-.1580	.1600			-.1500		-.8460	-.6480	-.3480	-.0150	-.0590
157.000								.0250							
162.000									-.2840						
165.000											-.7560	-.6840	-.3660	-.0880	-.1000
169.000									-.1340						
172.000							.5500								
180.000	1.1530	.5570	-.1860	-.1690	.0360	.5300			.2020		-.9810	-.6600	-.3310	-.2530	-.1570

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1230							-.1030		-.0550
40.000	.0730	-.0340		-.2150	-.2320	-.1990	-.2150			-.3000
70.000		-.0970	-.1610	-.2460	-.2400	-.5200	-.3160	-.1730		
90.000		-.0560	-.0820	-.1910	-.3240	-.5310	-.4750	-.1770		
105.000				-.1650	-.4400	-.5480	-.5450	-.2060		
110.000									-.3080	
120.000		-.0290	.0560	-.0930	-.6420	-.6270	-.5690	-.2900	-.2510	
135.000				.4560	.0180	-.7320	-.6590	-.5790		
150.000		-.1070	-.0090	.0540	-.1310	-.5220	-.6200	-.5230		

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (2) = .901 BETAT (9) = 8.220

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.1140		.1330	.0930	-.5090	-.5480	-.3500		
180.000		-.1340	.0000	.0500						

MACH (3) = 1.100 BETAT (1) = -8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2370	.8140	.0000	-.4680	-.2170	-.3990			.1080		-.0010	-.1020	-.2190	-.3210	-.3740
20.000			.3240	-.3060	-.2170	-.3500			.0170		.0140				
40.000			.5190	-.1070	-.0210	-.2370			-.0850		-.0590	-.0990	-.1210	-.1580	-.1160
55.000			.5950	.0270	.1440	.1680			.2280		.1450				
70.000			.5950	.0460	.1780	.2400			.2620		.1200	-.3040	-.2220	-.1030	-.0800
90.000		1.0890	.5230	-.0010	.2330	.2930			.2860		.0870	-.3920	-.2890	-.1270	-.1200
120.000			.3990	.0130	.2680	.4460			.3780		-.0440	-.4560	-.3360	-.1830	-.1670
142.000										-.2830					
150.000			.2800	-.0220	.2480	.6750			.4510		-.3670	-.3280	-.3340	-.2450	-.1720
157.000								.7250							
162.000									.3520						
165.000											-.4790	-.2750	-.3080	-.2200	-.1353
169.000									.1760						
172.000							.8990								
180.000	1.2370	.6950	.0550	-.0690	.1560	.7220			.4590		-.8130	-.4470	-.5210	-.5620	-.3940

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1760							.0320		-.1020
40.000	.2950	.4300		.1570	.0380	-.4230	-.3170			-.1180
70.000		-.0240	-.1650	.0390	.1700	-.0390	-.1390	-.1420		
90.000		.0010	-.1290	.1470	.1030	-.0490	-.1720	-.1570		
105.000				.2350	.0660	-.0790	-.1920	-.1450		
110.000									-.2500	
120.000		-.0260	.1090	.5490	.0380	-.1570	-.1100	-.0640	-.1520	
135.000				.4420	.1790	-.2560	.0360	.0240		
150.000		.0160	.2040	.2440	.0580	.0180	.1180	.0220		
165.000		.0600		.3160	.3110	.1110	.1540	-.1990		
180.000		-.0350	.0860	.2220						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (3) = 1.099 BETAT (2) = -6.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2590	.8250	.0000	-.4830	-.2440	-.3210			.1390		.0260	-.0740	-.1750	-.2770	-.3010
20.000			.2990	-.3360	-.2180	-.3560			.1420		.0270				
40.000			.4590	-.1700	-.0370	-.3770			.0450		-.0320	-.0950	-.1230	-.1650	-.1340
55.000			.5190	-.0700	.1160	-.0700			.2250		.1090				
70.000			.5090	-.0510	.1630	.0800			.2340		.0710	-.3320	-.2560	-.1400	-.1020
90.000		1.0320	.4430	-.1010	.2050	.1930			.2360		.0210	-.4140	-.3300	-.1380	-.1280
120.000			.3410	-.0950	.2470	.3950			.2990		-.1100	-.4770	-.3550	-.1910	-.1390
142.000										-.3890					
150.000			.2560	-.0640	.2530	.6590			.4300		-.4040	-.3440	-.3290	-.2530	-.1240
157.000								.7000							
162.000									.3270						
165.000											-.6020	-.3020	-.3170	-.2230	-.1060
169.000									.1930						
172.000							.9060								
180.000	1.2590	.7350	.0360	-.0850	.1870	.7490			.4740		-.7750	-.4700	-.5250	-.3760	-.2730
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2110							.0140		-.0910					
40.000	.2720	.3850		.1170	.0080	-.4400	-.2890			-.1370					
70.000		-.0220	-.1670	.0250	.1380	-.0880	-.1670	-.1630							
90.000		.0050	-.0930	.1230	.0590	-.0800	-.2040	-.1590							
105.000				.1960	.0140	-.1010	-.2200	-.1600							
110.000									-.2880						
120.000		-.0120	.1520	.4930	-.0100	-.1810	-.1240	-.0930	-.1870						
135.000				.5090	.1970	-.2260	.0070	-.0030							
150.000		.0190	.2240	.2850	.1170	-.0310	.0760	-.0200							
165.000		.0560		.3360	.3290	.0780	.1030	-.2370							
180.000		.0110	.1620	.2650											

MACH (3) = 1.098 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2880	.8500	.0000	-.5060	-.2800	-.1800			.1670		.0520	-.0500	-.1480	-.2370	-.1930
20.000			.2680	-.3740	-.2470	-.2820			.1740		.0480				
40.000			.3970	-.2400	-.1010	-.3730			.1140		-.0140	-.0810	-.1250	-.1820	-.1540
55.000			.4400	-.1660	.0680	-.1030			.2210		.0730				
70.000			.4250	-.1660	.1930	.0330			.2040		.0210	-.3560	-.2830	-.1650	-.115[illegible]
90.000		.9770	.3670	-.1840	.2140	.1420			.1930		-.0290	-.4310	-.3600	-.1610	-.125[illegible]
120.000			.2900	-.1630	.2420	.3490			.2130		-.1670	-.4970	-.3570	-.1990	-.11[illegible]

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (3) = 1.098 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5580					
150.000			.2320	-.0970	.2650	.6390			.4000		-.4480	-.3630	-.3320	-.2190	-.0990
157.000								.6620							
162.000									.2950						
165.000											-.7330	-.3340	-.3310	-.2090	-.0930
169.000									.1990						
172.000							.9130								
180.000	1.2860	.7570	.0780	-.0870	.2410	.7750			.4850		-.7730	-.4980	-.4230	-.2400	-.1080
X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2120							-.0110		-.0840					
40.000	.2450	.3270		-.0780	-.0120	-.4590	-.2470			-.1140					
70.000		-.0230	-.1700	-.0020	.1000	-.1040	-.2020	-.1900							
90.000		.0100	-.0700	.0870	.0130	-.1140	-.2310	-.1820							
103.000				.1490	-.0250	-.1330	-.2370	-.1920							
110.000									-.3130						
120.000		.0110	.1790	.4150	-.0610	-.2120	-.1540	-.1300	-.2150						
135.000				.5500	.2070	-.2420	-.0490	-.0430							
150.000		.0260	.2390	.3190	.1790	-.0820	.0120	-.0670							
165.000		.0540		.3520	.3390	.0250	.0220	-.2740							
180.000		.0130	.2000	.3050											

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0073	.0180	.0339	.0602	.1355	.1508	.1581	.1732	.1958	.2243	.2711	.3200	.3953	.5120
PHI															
.000	1.3240	.8310	.0000	-.5510	-.2880	-.1050			.1870		.0670	-.0410	-.1160	-.2280	-.0140
20.000			.2090	-.4300	-.2860	-.1350			.1900		.0590				
40.000			.3290	-.3010	-.1580	-.3330			.1680		-.0010	-.0750	-.1360	-.2000	-.1480
55.000			.3660	-.2470	-.0750	-.1070			.2170		.0430				
70.000			.3470	-.2540	-.0560	.0120			.1850		-.0240	-.3830	-.3210	-.1930	-.1030
90.000		.9150	.2860	-.2540	.2240	.1060			.1260		-.0790	-.4500	-.3940	-.1840	-.1100
120.000			.2290	-.2310	.2400	.3090			.1320		-.2270	-.5170	-.3740	-.1880	-.0880
142.000										-.6350					
150.000			.2100	-.1680	.2720	.6170			.3670		-.5010	-.4100	-.3330	-.1810	-.0760
157.000								.6160							
162.000									.2620						
165.000											-.7830	-.3790	-.3380	-.1810	-.0790
169.000									.2030						
172.000							.9110								

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3240	.7700	.0830	-.1010	.2630	.7890			.4910		-.7630	-.6040	-.3410	-.2050	-.0880

X/LB	.5873	.6626	.7380	.7869	.8283	.8849	.9262	.9639	1.0015	1.0392
PHI										
.000	.2090							.0020		-.0850
40.000	.2190	.2650		-.1510	-.0750	-.4720	-.2340			-.1140
70.000		-.0200	-.1380	-.0190	.0620	-.1360	-.2290	-.1930		
90.000		.0140	-.0180	.0590	-.0290	-.1460	-.2450	-.1860		
105.000				.0990	-.0440	-.1490	-.2460	-.2050		
110.000									-.3260	
120.000		.0270	.1940	.3220	-.1070	-.2380	-.1700	-.1560	-.2520	
135.000				.5630	.2240	-.2400	-.0950	-.0970		
150.000		.0410	.2500	.3560	.2360	-.1010	-.0610	-.1200		
165.000		.0480		.3600	.3520	.0050	-.0340	-.3070		
180.000		.0350	.2230	.3270						

MACH (3) = 1.099 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3000	.3953	.5120
PHI															
.000	1.3060	.8360	.0000	-.5400	-.2760	-.1100			.1830		.0620	-.0540	-.1350	-.2310	.0300
20.000			.1260	-.5080	-.3490	-.0930			.1720		.0350				
40.000			.1790	-.4440	-.2940	-.0690			.1430		-.0340	-.1280	-.1960	-.2740	.0580
55.000			.1860	-.4250	-.2760	-.0960			.1440		-.0480				
70.000			.1710	-.4260	-.3020	-.0060			.0950		-.1360	-.4710	-.4250	-.2530	-.0920
90.000		.7780	.1290	-.4100	-.2940	.0640			-.0030		-.2170	-.5330	-.4850	-.1980	-.0900
120.000			.1100	-.3360	.0810	.2290			.0010		-.3830	-.6020	-.4290	-.1680	-.0710
142.000										-.7150					
150.000			.1350	-.2280	.1890	.5440			.2880		-.6110	-.5480	-.3080	-.2030	-.0730
157.000								.4970							
162.000									.1670						
165.000											-.8430	-.5220	-.2640	-.2010	-.0890
169.000									.1920						
172.000							.8720								
180.000	1.3080	.7800	.0790	-.0880	.2560	.7810			.4820		-.7650	-.6170	-.3250	-.2100	-.1000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2050							-.0020		-.0180
40.000	.1640	.1100		-.1070	-.1480	-.2590	-.1870			-.1790

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (3) = 1.099 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0250	.0060	.0120	.0200	-.1820	-.2720	-.2570		
90.000		.0190	.0880	.0610	-.0440	-.1820	-.2730	-.2490		
105.000				.0660	-.0820	-.1920	-.2740	-.2670		
110.000									-.3570	
120.000		.0420	.2430	.2040	-.1930	-.2950	-.2310	-.2320	-.3100	
135.000				.6420	.2070	-.3280	-.2370	-.2050		
150.000		.0460	.2830	.4780	.3130	-.1550	-.2150	-.2200		
165.000		.0350		.4340	.3740	-.0830	-.1480	-.3930		
180.000		.0270	.2270	.3200						

MACH (3) = 1.100 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	[illegible]	.0339	.0802	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2780	.8400	.0000	-.5080	-.2550	-.2140			.1770		.0540	-.0520	-.1580	-.2470	-.1610
20.000			.1340	-.4900	-.3080	-.1660			.1720		.0270				
40.000			.1340	-.4610	-.3300	-.1260			.1540		-.0390	-.1520	-.2940	-.3130	.0440
55.000			.1260	-.4770	-.3430	-.1240			.1080		-.0700				
70.000			.0830	-.4960	-.3840	-.0260			-.0530		-.1700	-.4900	-.4480	-.2570	-.0880
90.000		.6830	.0450	-.4760	-.3600	.0350			-.0790		-.2670	-.5510	-.5050	-.3020	-.0870
120.000			.0460	-.3860	-.0100	.1790			-.0670		-.4950	-.6280	-.4410	-.1880	-.0780
142.000										-.7520					
150.000			.0910	-.2400	.1130	.4940			.2360		-.6820	-.5920	-.3130	-.2240	-.0980
157.000								.4290							
162.000									.1170						
165.000											-.8470	-.5700	-.3060	-.2290	-.1240
169.000									.1790						
172.000							.8350								
180.000	1.2780	.7170	.0750	-.0550	.2160	.7620			.4700		-.7530	-.4790	-.4020	-.2360	-.1710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2140							-.0240		-.0550
40.000	.1520	-.0080		-.1310	-.1690	-.2070	-.1960			-.2050
70.000		.0280	.0180	.0040	.0030	-.2020	-.2910	-.2620		
90.000		.0620	.0930	.0470	-.0600	-.2040	-.2970	-.2710		
105.000				.0580	-.1350	-.2100	-.2980	-.2880		
110.000									-.3770	
120.000		.0900	.2450	.1490	-.2500	-.3440	-.2580	-.2740	-.3320	
135.000				.6850	.1760	-.3880	-.3360	-.2680		
150.000		.0940	.2730	.4810	.3240	-.1630	-.2640	-.2800		

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (3) = 1.100 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0480		.4410	.4090	-.1200	-.1940	-.4140		
180.000		.0030	.1890	.2980						

MACH (3) = 1.101 BETAT (7) = 6.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5180
PHI															
.000	1.2530	.8290	.0000	-.4920	-.2200	-.3320			.1470		.0520	-.0800	-.1930	-.2800	-.3000
20.000			.1160	-.4940	-.2590	-.2460			.1450		-.0040				
40.000			.0810	-.4940	-.3680	-.1630			.1320		-.0790	-.1950	-.2920	-.3680	.0190
55.000			.0340	-.5340	-.4160	-.1140			.0650		-.1040				
70.000			-.0160	-.5560	-.4550	-.0350			-.0890		-.2090	-.5310	-.4900	-.2710	-.0610
90.000		.5960	-.0460	-.5470	-.4310	.0140			-.1060		-.3190	-.5950	-.5320	-.2220	-.0810
120.000			-.0290	-.4450	-.1080	.1310			-.1280		-.5420	-.6800	-.4450	-.2210	-.0970
142.000										-.7870					
150.000			.0380	-.2730	.0300	.4330			.1710		-.7430	-.6240	-.3690	-.2640	-.1030
157.000								.3480							
162.000									.0620						
165.000											-.8630	-.6260	-.3620	-.3280	-.1830
169.000									.1640						
172.000							.7840								
180.000	1.2530	.7170	.0470	-.0650	.1690	.7300			.4490		-.7550	-.4780	-.4940	-.3590	-.2870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2040							-.0040		-.0560
40.000	.1340	-.0280		-.1380	-.1950	-.2100	-.1640			-.3000
70.000		.0370	.0280	.0090	.0000	-.2130	-.3050	-.2910		
90.000		.0680	.0940	.0500	-.0630	-.2210	-.3120	-.2960		
105.000				.0400	-.1710	-.2490	-.3140	-.3110		
110.000									-.3900	
120.000		.0970	.2260	.1130	-.2930	-.3770	-.2850	-.3010	-.3580	
135.000				.6790	.1730	-.4280	-.4150	-.3190		
150.000		.0910	.2400	.4310	.2740	-.1700	-.2770	-.3060		
165.000		.0370		.4170	.3960	-.1630	-.2310	-.4390		
180.000		-.0270	.1550	.2590						

AMES 11-707 IA9 OA4 + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (3) = 1.101 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2220	.8030	.0000	-.4860	-.2230	-.4100			.0780		.0030	-.1050	-.2220	-.2970	-.3700
20.000			.0780	-.5070	-.2240	-.3900			.1090		-.0330				
40.000			.0090	-.5370	-.4170	-.2050			.0920		-.1100	-.2450	-.3600	-.4350	-.0480
55.000			-.0510	-.5950	-.4770	-.1230			.0320		-.1330				
70.000			-.1150	-.6240	-.5140	-.0460			-.1020		-.2410	-.5630	-.5280	-.2760	-.0160
90.000		.5030	-.1330	-.6060	-.5000	-.0110			-.1440		-.3680	-.6220	-.5740	-.2370	-.0310
120.000			-.0930	-.4920	-.2020	.0750			-.2070		-.5810	-.7380	-.4250	-.2620	-.1020
142.000										-.8210					
150.000			-.0050	-.2730	-.0280	.3660			.0990		-.7900	-.6400	-.4270	-.3090	-.1830
157.000								.2780							
162.000									.0220						
165.000											-.8630	-.6090	-.4680	-.4220	-.2900
169.000									.1450						
172.000							.7220								
180.000	1.2220	.7040	.0380	-.0490	.1370	.6890			.4220		-.7530	-.4800	-.4980	-.5820	-.4300

X/LB	.5875	.6626	.7380	.7769	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1640							.0110		-.0620
40.000	.0950	.0750		-.2250	-.2240	-.2270	-.2260			-.2660
70.000		.0320	.0240	.0080	.0000	-.2250	-.3200	-.3100		
90.000		.0670	.1020	.0550	-.0750	-.2430	-.3290	-.3120		
105.000				.0350	-.1920	-.2690	-.3310	-.3280		
110.000									-.3930	
120.000		.0850	.2500	.0970	-.3160	-.3980	-.3120	-.3300	-.3760	
135.000				.6820	.2260	-.3950	-.4380	-.3730		
150.000		.0430	.1680	.2300	.0040	-.2460	- .3580	-.3910		
165.000		.0040		.9300	.3090	-.2330	-.2910	-.4540		
180.000		-.0460	.1030	.2150						

MACH (4) = 1.249 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2780	.9280	.0000	-.2370	-.0380	-.2570			-.3000		-.0710	.0900	.0120	- 1350	.2910
20.000			.4970	-.0790	-.0380	-.2480			-.2500		-.0810				
40.000			.6970	.1360	.1570	-.2170			-.2510		-.0350	- 0440	-.0810	.0250	-.0290
55.000			.7680	.2470	.2900	.0410			.0730		.2310				
70.000			.7540	.2590	.2900	.1260			.1700		.2020	- .1700		- 2330	-.1290
90.000		1.1700	.6620	.1850	.3210	.2430			.2770		.0470	-.2310	- .1	.0	-.0
120.000			.5040	.1220	.3400	.4580			.4450		-.0470	- .2	- .	.	.

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AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (4) = 1.249 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.1540					
142.000									.9450		-.2840	-.2700	-.2270	-.1640	-.1200
150.000			.3790	.0410	.3000	.7130									
157.000								.8040							
162.000									.4560						
165.000											-.3800	-.2210	-.2020	-.1520	-.0950
169.000									.2840						
172.000							.9480								
180.000	1.2760	.7390	.1580	.0080	.2000	.7450			.5350		-.6100	-.3680	-.3710	-.4070	-.3930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1170							.0620		-.0970
40.000	-.0340	.5020		.1290	.1510	-.2200	-.5140			.0540
70.000		-.0800	-.1170	-.2050	.0790	-.3060	-.0740	-.0840		
90.000		-.0930	-.0840	.0990	.0060	.0200	-.1080	-.1280		
105.000				.2010	.0940	.0060	-.1350	-.1490		
110.000									-.1680	
120.000		-.1340	-.0890	.6090	.1420	-.1180	-.1120	-.0530	-.0670	
135.000				.3520	.2070	-.2470	.0100	.0930		
150.000		-.1110	.0800	.1600	.0720	-.0140	.1570	.1140		
165.000		-.0720		.2450	.3410	.1450	.2050	-.0860		
180.000		-.1860	-.0090	.1720						

MACH (4) = 1.248 BETAT (2) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	.9530	.0000	-.2620	-.0530	-.1960			-.2230		-.0210	.1230	.0220	-.1880	-.2880
20.000			.4620	-.1240	-.0390	-.2200			-.2180		-.0010				
40.000			.6260	.0500	.1240	-.2050			-.2390		.0050	-.0120	.0390	-.0660	-.0940
55.000			.6820	.1530	.2320	.0150			.0230		.1940				
70.000			.6850	.1510	.2370	.1080			.1390		.0070	-.1980	-.1570	-.0490	-.0540
90.000		1.1150	.5790	.0030	.2930	.2280			.2350		-.0280	-.2560	-.2360	-.0640	-.0770
120.000			.4530	.0470	.3490	.4460			.3950		-.1110	-.3620	-.2490	-.1180	-.1010
142.000										-.2510					
150.000			.3540	-.0070	.3110	.7160			.5310		-.3020	-.3150	-.2750	-.1750	-.1120
157.000								.7890							
162.000									.4400						
165.000											-.4620	-.3670	-.2950	-.1940	-.1210
169.000									.3000						
172.000							.5690								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2930	.7550	.1630	-.0160	.2370	.7850			.5520		-.3990	-.3640	-.4000	-.2980	-.3050
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0310							.0440		-.0780					
40.000	-.0720	.4530		.0910	.1040	-.2430	-.3570			.0360					
70.000		-.1270	-.1200	-.1680	.0750	-.0280	-.0960	-.1130							
90.000		-.1100	-.0830	.0860	-.0080	-.0080	-.1330	-.1480							
105.000				.1740	.0580	-.0290	-.1560	-.1620							
110.000									-.1850						
120.000		-.1200	-.0470	.5320	.0980	-.1430	-.1210	-.0620	-.0930						
13.'.000				.4220	.2230	-.2260	.0130	.0660							
150.000		-.0910	.1010	.1890	.1240	-.0130	.1240	.0750							
165.000		-.0680		.2650	.3490	.1320	.1590	-.1260							
180.000		-.1570	.0170	.2020											

MACH (4) = 1.248 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.9650	.0000	-.2900	-.1090	-.1350			-.1750		-.0830	.1460	.0400	-.1230	-.2200
20.000			.4330	-.1660	-.0750	-.1860			-.1750		.0680				
40.000			.5640	-.0200	.0690	-.2020			-.2550		.0320	-.0480	.0350	-.0810	-.0930
55.000			.6000	.0500	.1530	-.0070			-.0080		-.0170				
70.000			.5790	.0440	.1480	.0540			.1090		-.0520	-.2230	-.1930	-.0870	-.0740
90.000		1.0560	.5000	.0050	.1850	.2120			.2000		-.0830	-.3530	-.2690	-.0900	-.0850
120.000			.4050	-.0100	.2900	.4280			.3400		-.1590	-.4020	-.2670	-.1340	-.0930
142.000										-.3580					
150.000			.3300	-.0410	.3000	.7090			.5090		-.3220	-.3510	-.2840	-.1880	-.107-
157.000								.7850							
162.000									.4160						
165.000											-.5390	-.2840	-.2790	-.1730	-.1000
169.000									.3120						
172.000							.9770								
180.000	1.3210	.8060	.1720	-.0140	.2390	.8140			.5650		-.5680	-.3940	-.3510	-.2230	-.1560
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0580							.0270		-.0760					
40.000	-.0830	.3930		.0390	.0440	-.2650	-.2690			.0010					

AMES 11-707 IA9 OEA + 33 + T9 ORBITER FUSELAGE (RBMB07)

MACH (4) = 1.248 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1380	-.1290	-.1280	.0660	-.0420	-.1160	-.1290		
90.000		-.1110	-.0790	.0730	-.0220	-.0280	-.1460	-.1560		
105.000				.1500	.0250	-.0540	-.1660	-.1600		
110.000									-.1980	
120.000		-.0940	.0190	.4470	.0550	-.1730	-.1150	-.0770	-.1170	
135.000				.4850	.2470	-.1950	-.0170	.0230		
150.000		-.0650	.1210	.2410	.1880	-.0260	.0670	.0100		
165.000		-.0520		.2930	.3530	.1050	.0950	-.1730		
180.000		-.1220	.0150	.2530						

MACH (4) = 1.247 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.4080	.9670	.0000	-.3740	-.1530	.0000			-.1620		-.1840	.1720	.0600	-.0960	-.1970
20.000			.3550	-.2570	-.1440	-.0430			-.1470		-.0590				
40.000			.4870	-.1190	-.0150	-.1750			-.1400		.0700	-.0950	.0290	-.1020	-.1120
55.000			.5240	-.0550	.0520	-.0140			-.0220		-.0550				
70.000			.4980	-.0750	.0320	.0900			.0900		-.0710	-.2620	-.2690	-.1130	-.0750
90.000		1.0190	.4110	-.0680	.0570	.2020			.1730		-.1520	-.3920	-.3060	-.1100	-.0830
120.000			.3300	-.0820	.1440	.4090			.2870		-.1990	-.4460	-.3400	-.1550	-.0820
142.000										-.4160					
150.000			.2930	-.0820	.2150	.6950			.4810		-.3460	-.3680	-.3040	-.1840	-.0930
157.000								.7190							
162.000									.3800						
165.000											-.5780	-.3100	-.3030	-.1810	-.0880
169.000									.3140						
172.000							.9710								
180.000	1.4080	.8020	.1710	-.0190	.1810	.8410			.5660		-.5630	-.4590	-.2760	-.2330	-.1000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0580							.0350		-.0910
40.000	-.0930	.3250		-.0200	-.0080	-.2900	-.2770			-.0230
70.000		-.1400	-.1190	-.0950	.0530	-.0620	-.1370	-.1540		
90.000		-.1040	-.0600	.0610	-.0280	-.0560	-.1630	-.1600		
105.000				.1120	.0020	-.0780	-.1800	-.1610		
110.000									-.2140	
120.000		-.0710	.0920	.3490	.0050	-.1970	-.1110	-.1010	-.1530	
135.000				.4950	.2760	-.1800	-.0520	-.0220		
150.000		-.0460	.1470	.2740	.2590	-.0160	.0100	-.0430		

AMES 11-707 IA9 OA + 5D + T9 ORBITER FUSELAGE (RBWB07)

MACH (4) = 1.247 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0390		.3000	.3760	.1050	.0590	-.2120		
180.000		-.0480	.0750	.2710						

MACH (4) = 1.247 BETAT (5) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3950	.9950	.0000	-.3650	-.1870	.0210			-.1310		-.1610	.1760	.0730	-.0990	-.2090
20.000			.2820	-.3290	-.2200	.0[illegible]			-.1320		-.1560				
40.000			.3450	-.2600	-.1610	-.0230			-.1170		-.0790	-.0100	-.0320	-.1350	-.1750
55.000			.3510	-.2270	-.1550	.0220			.0250		-.1220				
70.000			.3350	-.2270	-.1740	.1310			.0830		-.1480	-.4130	-.3300	-.1680	-.0700
90.000		.9020	.2810	-.2270	-.1350	.2100			.1300		-.1980	-.4470	-.3750	-.1480	-.0680
120.000			.2240	-.1710	-.0070	.3600			.1760		-.2630	-.4880	-.3930	-.1670	-.0570
142.000										-.4800					
150.000			.2340	-.1200	.1410	.6370			.4100		-.4150	-.4050	-.3080	-.2430	-.0500
157.000								.6110							
162.000									.2950						
165.000											-.6170	-.3770	-.2590	-.2330	-.0390
169.000									.3130						
172.000							.9430								
180.000	1.3950	.7850	.1760	-.0050	.1940	.8400			.5660		-.5480	-.4540	-.2650	-.2300	-.0700

X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0800							.0450		-.0630
40.000	.0620	.1790		-.1040	-.0840	-.3380	-.2070			-.1370
70.000		-.1100	-.0820	-.0410	.0280	-.0900	-.1690	-.1790		
90.000		-.0800	.0110	.0420	-.0400	-.0950	-.1850	-.1690		
109.000				.0530	-.0300	-.0960	-.1870	-.1810		
110.000									-.2460	
120.000		.0510	.1550	.2080	-.0720	-.2470	-.1490	-.1530	-.2050	
135.000				.5850	.2910	-.2080	-.1660	-.1360		
150.000		-.0360	.1690	.3870	.3660	-.0320	-.0960	-.1340		
165.000		-.0380		.3980	.4000	.0550	-.0280	-.2840		
180.000		-.0420	.1090	.2730						

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (4) = 1.243 BETAT (6) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3070	.9780	.0000	-.3120	-.1400	-.1380			-.1610		.0020	.1330	.0320	-.1140	-.2300
20.000			.2850	-.3140	-.2080	-.0880			-.1430		-.1520				
40.000			.2890	-.2850	-.1970	-.1030			-.0990		-.1540	-.0010	-.0850	-.1700	-.2150
55.000			.2770	-.2850	-.2240	.0070			.0080		-.1570				
70.000			.2370	-.3050	-.2580	.1130			.0520		-.1870	-.4450	-.3300	-.1920	-.0700
90.000		.7910	.1820	-.2950	-.2110	.1830			.0870		-.2320	-.4740	-.4430	-.1610	-.0680
120.000			.1620	-.2220	-.0720	.3140			.1020		-.3090	-.5170	-.4210	-.1810	-.0580
142.000										-.5250					
150.000			.1920	-.1390	.0940	.5840			.3570		-.4900	-.4310	-.2910	-.2810	-.0560
157.000								.5420							
162.000									.2430						
165.000											-.6310	-.4300	-.2450	-.2490	-.1070
169.000									.3020						
172.000							.9070								
180.000	1.3070	.7850	.1710	-.0060	.1940	.8160			.5510		-.5490	-.4200	-.3260	-.2210	-.1310

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1180							.0310		-.0530
40.000	.1150	.0860		-.1150	-.0970	-.2500	-.1620			-.1650
70.000		-.0670	-.0700	-.0260	.0190	-.1200	-.1900	-.1300		
90.000		-.0560	.0070	.0410	-.0410	-.1170	-.2010	-.1700		
105.000				.0460	-.0650	-.1320	-.2000	-.1640		
110.000									-.2490	
120.000		-.0570	.1260	.1880	-.1210	-.3090	-.1710	-.1550	-.2130	
135.000				.7330	.2650	-.2540	-.2390	-.1870		
150.000		-.0450	.0690	.3780	.3540	-.0410	-.1440	-.1820		
165.000		-.0700		.4400	.4600	.0100	-.0810	-.3100		
180.000		-.1200	.0260	.2610						

MACH (4) = 1.248 BETAT (7) = 6.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2770	.9460	.0000	-.2920	-.0600	-.1970			-.2280		.0110	.1290	.0090	-.1480	-.2830
20.000			.2710	-.2940	-.1700	-.1760			-.1980		.0010				
40.000			.2360	-.2940	-.2050	-.0980			-.1290		-.1210	-.0370	-.1350	-.2180	-.2450
55.000			.1840	-.3320	-.2600	-.0070			-.0230		-.1600				
70.000			.1350	-.3570	-.3040	.0950			.0390		-.2190	-.4690	-.3610	-.2160	-.0690
90.000		.6820	.0930	-.3580	-.2690	.1630			.0590		-.2640	-.5050	-.4630	-.1780	-.0610
120.000			.0950	-.2740	-.1300	.2710			.0390		-.3460	-.5370	-.4410	-.2130	-.0630

AMES 11-[illegible] IA9 O2A + 83 + T9 ORBITER FUSELAGE (RBM307)

MACH (4) = 1.246 BETAT (7) = 6.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5620					
150.000			.1410	-.1640	.0860	.5250			.2980		-.5390	-.4570	-.2890	-.2670	-.0860
157.000								.4680							
162.000									.1960						
165.000											-.6360	-.4760	-.2550	-.2810	-.1730
169.000									.2840						
172.000							.8590								
180.000	1.2770	.7620	.1410	-.0140	.2200	.7760			.5300		-.5510	-.3750	-.3780	-.2390	-.2850

X/LB	.5875	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0770							.0510		-.0760
40.000	.0860	-.0010		-.0770	-.1370	-.2120	-.1620			-.1940
70.000		-.0520	-.0020	.0310	.0430	-.1170	-.1900	-.1990		
90.000		-.0380	.0620	.0830	-.0010	-.1160	-.2050	-.1970		
105.000				.0690	-.0510	-.1170	-.2060	-.2110		
110.000									-.2730	
120.000		-.0510	.1580	.2010	-.1420	-.3030	-.1770	-.1980	-.2510	
135.000				.7400	.2760	-.2680	-.2600	-.2370		
150.000		-.0660	.1230	.3410	.3270	-.0310	-.1330	-.1740		
165.000		-.1130		.4350	.4420	.0020	-.0800	-.3160		
180.000		-.1780	.0390	.2080						

MACH (4) = 1.247 BETAT (8) = 8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.3120
PHI															
.000	1.2710	.9120	.0000	-.2820	-.0350	-.2450			-.2830		-.0700	.1170	.0150	-.1280	-.2950
20.000			.2330	-.2920	-.0550	-.2540			-.2540		.0080				
40.000			.1630	-.3110	-.2310	-.1630			-.1540		-.0770	-.0720	-.1790	-.2770	-.2540
55.000			.1040	-.3820	-.3050	-.0430			-.0440		-.1930				
70.000			.0530	-.4140	-.3520	.0730			.0140		-.2420	-.4750	-.3880	-.2310	-.0640
90.000		.6040	.0240	-.4050	-.3220	.1440			.0250		-.2930	-.5260	-.4760	-.1920	-.0590
120.000			.0450	-.3100	-.1160	.2340			-.0200		-.3810	-.5570	-.4440	-.2460	-.0690
142.000										-.5860					
150.000			.1130	-.1650	.0530	.4610			.2350		-.5770	-.4790	-.3100	-.2730	-.1640
157.000								.4060							
162.000									.1640						
165.000											-.6350	-.4940	-.3130	-.3450	-.2620
169.000									.2710						
172.000							.7960								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB07)

MACH (4) = 1.247 BETAT (8) = 8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2710	.7570	.1430	.0120	.1820	.7330			.5110		-.5740	-.3700	-.3530	-.3970	-.3860
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1280							.0720		-.0870					
40.000	.0630	-.0330		-.1850	-.1950	-.1950	-.1720			-.2520					
70.000		-.0140	-.0560	-.0040	.0430	-.1160	-.2040	-.2160							
90.000		.0060	.0270	.0650	-.0210	-.1270	-.2150	-.2130							
105.000				.0590	-.0990	-.1380	-.2200	-.2290							
110.000									-.2680						
120.000		.0050	.1100	.1570	-.1850	-.3640	-.2070	-.2290	-.2740						
135.000				.7460	.2870	-.2850	-.3020	-.3130							
150.000		-.0720	.0160	.2420	.1470	-.0970	-.2190	-.2520							
165.000		-.1220		.3780	.4160	-.0390	-.1430	-.3490							
180.000		-.2000	.0130	.1820											

MACH (5) = 1.395 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3080	.9700	.0000	-.1020	.1060	-.1240			-.1870		-.2090	-.0330	-.0360	.0040	-.1680
20.000			.5660	.0440	.0950	-.1160			-.1670		-.1720				
40.000			.7610	.2480	.2740	-.0800			-.1820		-.1460	.0030	-.0090	.0030	.0170
55.000			.8300	.3680	.3920	.1400			.0950		.1020				
70.000			.8150	.3630	.3790	.1940			.2320		.1100	-.1620	-.0740	.0080	.0160
90.000		1.2050	.7250	.2780	.3930	.2400			.3430		.0750	-.2020	-.1660	-.0130	-.0170
120.000			.5760	.2030	.3890	.4580			.5170		.0110	-.2320	-.1910	-.0720	-.0540
142.000										-.0360					
150.000			.4580	.0940	.3460	.7490			.6280		-.1620	-.2090	-.1860	-.1310	-.0710
157.000								.8890							
162.000									.5450						
165.000											-.2650	-.1460	-.1800	-.1330	-.0500
169.000									.3700						
172.000							1.0220								
180.000	1.3080	.8100	.2480	.0620	.2570	.7280			.6060		-.4680	-.3260	-.2770	-.2860	-.3060
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.2240							.0840		-.0780					
40.000	.0030	.4380		.2190	.2090	-.1030	-.3770			-.1130					

AMES 11-7D7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (5) = 1.395 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0920	-.0850	-.1570	.0100	.0150	-.0410	-.0690		
90.000		-.0840	-.0540	.0690	.0330	.0100	-.0680	-.0930		
105.000				.2090	.1340	-.0040	-.0840	-.1180		
110.000									-.1530	
120.000		-.0960	-.0760	.5820	.1960	-.0670	-.1080	-.0970	-.0510	
135.000				.2900	.1930	-.2140	-.1720	.0610		
150.000		-.1070	-.0700	.0870	.0450	-.1570	.1030	.1460		
165.000		-.0780		.1660	.3090	.1240	.2110	-.0270		
180.000		-.2980	-.1650	.0740						

MACH (5) = 1.395 BETAT (2) = -6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3350	1.0030	.0000	-.1490	.0480	-.0690			-.1130		-.1700	-.0140	.0020	.0050	-.1980
20.000			.5400	-.0260	.0600	-.0830			-.1160		-.1340				
40.000			.6930	.1520	.2200	-.0590			-.1710		-.1420	.0240	-.0010	-.0220	-.0090
55.000			.7420	.2490	.3230	.1200			.0850		.0630				
70.000			.7230	.2490	.3130	.1740			.2140		.0680	-.1950	-.1050	-.0170	-.0030
90.000		1.1460	.6390	.1850	.3420	.2200			.3210		.0270	-.2320	-.2330	-.0370	-.0240
120.000			.5180	.1340	.3500	.4660			.4720		-.0180	-.2620	-.2160	-.0880	-.0530
142.000										-.1090					
150.000			.4310	.0580	.3210	.7550			.6190		-.1890	-.2370	-.2030	-.1670	-.0610
157.000								.8780							
162.000									.5360						
165.000											-.3340	-.1680	-.1920	-.1610	-.0540
169.000									.3940						
172.000							1.0450								
180.000	1.3350	.8210	.2560	.0610	.2190	.7730			.6330		-.4620	-.2620	-.2930	-.2530	-.2210

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2140							.0580		-.0920
40.000	-.0580	.3550		.1630	.1620	-.1190	-.3790			-.0970
70.000		-.1050	-.0960	-.1570	-.0090	-.0110	-.0640	-.0900		
90.000		-.0970	-.0620	.0700	.0050	-.0190	-.0900	-.1180		
105.000				.1760	.0900	-.0180	-.1100	-.1410		
110.000									-.1450	
120.000		-.0890	-.0610	.5090	.1530	-.0960	-.1200	-.1000	-.0630	
135.000				.3710	.2340	-.1860	-.0850	.0640		
150.000		-.0900	-.0460	.1380	.1080	-.0690	.1220	.1100		

AMES 11-707 IA9 OEA + SS + T9 ORBITER FUSELAGE (RBM807)

MACH (5) = 1.395 BETAT (2) = -6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0640		.1860	.3160	.1440	.1840	-.0590		
180.000		-.2300	-.0600	.1060						

MACH (5) = 1.397 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3510	1.0230	.0000	-.1480	-.0170	-.0280			-.0580		-.1370	-.1000	.0480	-.0040	-.1180
20.000			.5240	-.0530	.0220	-.0660			-.0740		-.1210				
40.000			.6400	.0890	.1660	-.0520			-.1520		-.1330	.0660	-.0310	-.0420	-.0340
55.000			.6690	.1540	.2420	.0980			.0700		.0970				
70.000			.6420	.1410	.2270	.1500			.1940		.0180	-.2290	-.1550	-.0550	-.0140
90.000		1.0900	.5670	.1030	.2490	.2080			.2940		-.0080	-.1600	-.2660	-.0690	-.0320
120.000			.4710	.0810	.2670	.4670			.4250		-.0480	-.2930	-.2390	-.1020	-.0450
142.000										-.2040					
150.000			.4070	.0350	.2760	.7590			.6030		-.2010	-.2620	-.2060	-.1650	-.0550
157.000								.8680							
162.000									.5160						
165.000											-.3950	-.1650	-.1950	-.1660	-.0610
169.000									.4130						
172.000							1.0550								
180.000	1.3510	.6430	.2630	.0670	.2110	.8150			.6490		-.4280	-.2930	-.2640	-.1710	-.1450

X/LB	.5873	.6626	.7380	.7869	.8203	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1780							.0430		-.1030
40.000	-.0850	.3040		.1150	.0850	-.1360	-.3880			-.1230
70.000		-.1130	-.1110	-.1560	-.0170	-.0280	-.0840	-.1060		
90.000		-.0990	-.0730	.0610	-.0210	-.0390	-.1060	-.1250		
105.000				.1420	.0600	-.0390	-.1220	-.1440		
110.000									-.1470	
120.000		-.0810	-.0540	.4220	.1210	-.1280	-.1260	-.0690	-.0930	
135.000				.4220	.2770	-.1570	-.0330	.0390		
150.000		-.0700	-.0200	.2020	.1930	-.0180	.0940	.0560		
165.000		-.0500		.2430	.3350	.1370	.1320	-.1090		
180.000		-.1310	-.0970	.1990						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB07)

MACH (5) = 1.396 BETAT (4) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	1.1270	.0000	-.2640	-.2510	.1550			-.0160		-.1150	-.1600	.0880	.0410	-.0910
20.000			.4440	-.1960	-.1840	.0410			-.0070		-.1010				
40.000			.5250	-.0750	-.0390	-.0070			-.0220		-.1070	-.0540	-.0870	.0270	-.0880
55.000			.4970	-.0360	.0240	.0820			.0620		-.0010				
70.000			.4550	-.0510	.0170	.1280			.1650		-.0390	-.2800	-.2940	-.1460	-.0300
90.000		.9450	.3950	-.0580	.0440	.2230			.2450		-.0660	-.3180	-.3240	-.1410	-.0340
120.000			.3490	-.0250	.1070	.4420			.3180		-.1160	-.3410	-.2960	-.2020	-.0440
142.000										-.3000					
150.000			.3490	-.0090	.1820	.7240			.5410		-.2500	-.2860	-.2200	-.1680	-.0750
157.000								.7850							
162.000									.4410						
165.000											-.4580	-.2990	-.2050	-.1630	-.0900
169.000									.4150						
172.000							1.0370								
180.000	1.3630	.8460	.2670	.0720	.2050	.8760			.6520		-.4160	-.3450	-.1520	-.1600	-.1100

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1460							.0580		-.0720
40.000	-.1150	.2130		-.0030	-.0230	-.2020	-.3710			-.1420
70.000		-.1280	-.1040	-.0870	-.0100	-.0630	-.1160	-.1450		
90.000		-.0980	-.0570	.0320	-.0460	-.0740	-.1380	-.1470		
105.000				.0790	-.0040	-.0720	-.1520	-.1570		
110.000									-.1760	
120.000		-.0490	.0140	.2810	.0330	-.2050	-.1400	-.0980	-.1490	
135.000				.5090	.3120	-.1420	-.0690	-.0570		
150.000		-.0280	.0360	.2560	.3240	.0210	.0000	-.0420		
165.000		-.0240		.2910	.3680	.1350	.0630	-.1790		
180.000		-.0160	-.0260	.2620						

MACH (5) = 1.394 BETAT (5) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3570	1.0240	.0000	-.1900	-.0250	-.0210			-.0650		-.1380	-.1250	.0550	.0090	-.1280
20.000			.3910	-.1910	-.1130	.0060			-.0520		-.1320				
40.000			.3920	-.1450	-.1010	-.0350			-.0260		-.1530	-.1300	-.0370	-.0630	-.1520
55.000			.3670	-.1440	-.1190	.0430			.0890		-.0620				
70.000			.3250	-.1670	-.1310	.1100			.1430		-.0690	-.3320	-.3810	-.1850	-.0430
90.000		.8330	.2740	-.1690	-.0970	.2350			.1910		-.1110	-.3520	-.3760	-.1790	-.0460
120.000			.2540	-.1070	-.0010	.3850			.1870		-.0810	-.3620	-.3130	-.2350	-.0690

AMES 11-7OT IA9 OEA + SS + T9 ORBITER FUSELAGE (RBMBOT)

MACH (5) = 1.394 BETAT (5) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.3750					
150.000			.2880	-.0390	.1230	.6330			.4500		-.3600	-.3180	-.2070	-.1880	-.1180
157.000								.6330							
162.000									.3430						
165.000											-.4790	-.3280	-.1600	-.1740	-.1790
169.000									.4010						
172.000							.9720								
180.000	1.3570	.8540	.2670	.0770	.2160	.8420			.6310		-.4100	-.3190	-.2390	-.1710	-.1380

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1630							.0370		-.0850
40.000	-.1280	.0800		-.0650	-.1290	-.2640	-.1870			-.1820
70.000		-.1010	-.0860	-.0570	-.0010	-.0860	-.1310	-.1530		
90.000		-.0690	-.0430	.0330	-.0420	-.0930	-.1510	-.1520		
105.000				.0500	-.0430	-.0950	-.1700	-.1580		
110.000									-.2030	
120.000		-.0370	-.0220	.1750	-.0460	-.2690	-.1650	-.1460	-.1840	
135.000				.7060	.2950	-.1670	-.1710	-.1790		
150.000		-.0240	-.0430	.3020	.3560	.0150	-.0740	-.1170		
165.000		-.0520		.3740	.4630	.0640	-.0210	-.2260		
180.000		-.0920	-.1010	.1990						

MACH (5) = 1.392 BETAT (6) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.9790	.0000	-.1350	.0770	-.1270			-.1840		-.2100	-.0350	-.008[illegible]	.0280	-.1670
20.000			.3130	-.1910	.0680	-.1540			-.1770		-.2090				
40.000			.2530	-.2170	-.1430	-.1370			-.0970		-.1800	-.1780	-.0650	-.2020	-.2360
55.000			.1940	-.2650	-.2150	-.0090			.0450		-.1030				
70.000			.1400	-.2950	-.2510	.0650			.1140		-.1120	-.3690	-.4160	-.2230	-.0540
90.000		.6680	.1090	-.2880	-.2320	.1970			.1330		-.1620	-.3890	-.4160	-.2000	-.0660
120.000			.1260	-.2020	-.1180	.2850			.0600		-.2490	-.4230	-.3380	-.2860	-.1050
142.000										-.4390					
150.000			.1940	-.0830	.0680	.4570			.3050		-.4440	-.3650	-.2250	-.2070	-.2240
157.000								.4920							
162.000									.2640						
165.000											-.4860	-.3840	-.2330	-.2650	-.24
169.000									.3620						
172.000							.8460								

AMES 11-7OT IA9 O2A + 33 + T9 ORBITER FUSELAGE (RBMB07)

MACH. (5) = 1.392 BETAT (6) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3993	.5120
PHI															
180.000	1.3100	.8210	.2330	.3640	.2260	.7210			.5810		-.4450	-.2830	-.2780	-.2950	-.3000
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.2280							.0730		-.0490					
40.000	-.0630	-.0500		-.1530	-.2060	-.2030	-.2000			-.2120					
70.000		-.0890	-.0840	-.0640	.0070	-.0850	-.1450	-.1770							
90.000		.0660	-.0530	.0400	-.0460	-.1090	-.1740	-.1700							
105.000				.0220	-.0860	-.1540	-.1900	-.1790							
110.000									-.2320						
120.000		-.0580	-.0500	.1870	-.1300	-.3110	-.2200	-.2040	-.2150						
135.000				.7150	.3140	-.2490	-.2480	-.2770							
150.000		-.2140	-.2080	.0850	.1390	-.0470	-.1640	-.1900							
165.000		-.1950		.2150	.3380	-.0110	-.1160	-.2970							
180.000		-.3100	-.1410	.0630											

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB08) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .599 BETAT (1) = -8.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0100	.4700	.0000	-.7070	-.2170	-.1590			-.1740		-.1880	-.1780	-.1470	-.1190	-.0540
20.000			-.1590	-.5780	-.2300	-.1500			-.1540		-.1700				
40.000			.1470	-.2860	-.0920	-.1600			-.1560		-.1720	-.1230	-.0580	.0030	.0820
55.000			.2770	-.0970	.0970	.1050			.0770		-.0050				
70.000			.3080	-.0320	.1060	.1270			.0710		-.0450	-.3330	-.0800	-.0090	-.0210
90.000		.8540	.2480	-.0360	.1530	.1410			.0770		-.0850	-.4190	-.1000	-.0420	-.0710
120.000			.1330	-.0140	.1650	.2090			.1530		-.2850	-.3400	-.1480	-.1070	-.0990
142.000										-.3840					
150.000			-.0080	-.0510	.1130	.3730			-.0620		-.6760	-.2450	-.1460	-.1060	-.0920
157.000								.3390							
162.000									-.2000						
165.000											-.4540	-.2080	-.1110	-.0800	-.0730
169.000									-.3680						
172.000							.5230								
180.000	1.0100	.3610	-.2830	-.1380	.0090	.3930			-.0330		-.6610	-.2950	-.2900	-.3690	-.2310

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0382
PHI										
.000	.0330							-.1210		-.0410
40.000	.1440	.1480		-.2580	-.4350	-.2700	-.1280			-.1240
70.000		-.1870	-.1450	-.0530	.0920	.0340	.0310	-.0300		
90.000		-.1410	-.0550	.0480	.0780	-.0120	-.0250	-.0710		
105.000				.1450	.0420	-.0150	-.0480	-.0940		
110.000									-.2040	
120.000		-.1210	.0690	.3590	-.0570	-.0920	-.0470	-.0690	-.1310	
135.000				.1810	-.0880	-.1750	-.1130	-.1640		
150.000		-.0730	.0450	.0340	-.1920	-.1000	-.0740	-.1770		
165.000		-.0300		.0950	.0830	-.0090	-.0570	-.2860		
180.000		-.1750	-.0880	-.0710						

AMES 11-7D7 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (1) = .598 BETAT (2) = -6.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0430	.5070	.0000	-.6640	-.1670	-.1120			-.1270		-.1490	-.1390	-.1090	-.0710	-.0200
20.000			-.1610	-.5550	-.1810	-.1120			-.1190		-.1410				
40.000			.0880	-.3120	-.0810	-.1190			-.1220		-.1510	-.1180	-.0490	.0040	.0780
55.000			.1950	-.1560	.0640	.0750			.0410		-.0390				
70.000			.2120	-.1010	.0590	.0860			.0390		-.0840	-.3680	-.1020	-.0230	-.0270
90.000		.7900	.1550	-.1150	.1070	.1010			.0410		-.1180	-.4440	-.1150	-.0490	-.0740
125.000			.0650	-.0610	.1350	.1760			.0910		-.3000	-.3370	-.1570	-.0890	-.0850
142.000										-.4170					
150.000			-.0370	-.0670	.1180	.3640			-.0930		-.6520	-.2420	-.1310	-.0870	-.0880
157.000								.3150							
162.000									-.2300						
165.000											-.4680	-.2070	-.1110	-.0750	-.0840
169.000									-.3840						
172.000							.5500								
180.000	1.0430	.3680	-.2640	-.1160	.0420	.4300			-.0070		-.6250	-.2570	-.2520	-.2270	-.1880

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0440							-.1150		-.0800
40.000	.1280	.1150		-.2440	-.3970	-.2420	-.1110			-.1340
70.000		-.1990	-.1640	-.0770	.0640	.0120	.0130	-.0360		
90.000		-.1490	-.0710	.0110	.0400	-.0410	-.0430	-.0750		
105.000				.1030	.0000	-.0410	-.0870	-.1090		
110.000									-.2120	
120.000		-.1070	.0720	.3020	-.1150	-.1170	-.0640	-.0770	-.1550	
135.000				.2450	-.0680	-.1750	-.1100	-.1570		
150.000		-.0840	.0610	.0800	-.1570	-.1210	-.0970	-.1950		
165.000		-.0480		.1110	.0920	-.0460	-.0980	-.2770		
180.000		-.1280	-.0380	-.0060						

MACH (1) = .596 BETAT (3) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0700	.5440	.0000	-.6370	-.1290	-.0830			-.0960		-.1120	-.1070	-.0710	-.0390	.0190
20.000			-.1810	-.5480	-.1420	-.0850			-.0830		-.1120				
40.000			.0160	-.3600	-.0810	-.0900			-.0970		-.1330	-.1130	-.0490	.0080	.0730
55.000			.0960	-.2390	.0180	.0360			.0030		-.0650				
70.000			.1010	-.1960	.0110	.0460			-.0040		-.1120	-.3930	-.1130	-.0850	-.0810
90.000		.7120	.0420	-.197	.0580	.0630			-.0040		-.1490	-.4460	-.1000	-.0490	-.0680
120.000			-.0110	-.1150	.0980	.1390			.0140		-.3090	-.3310	-.1300	-.0730	-.0690

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (1) = .596 BETAT (3) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.4430					
142.000									-.1340		-.6120	-.2290	-.1210	-.0730	-.0590
150.000			-.0640	-.0750	.1110	.3520		.2780							
157.000									-.2670						
162.000											-.4840	-.2000	-.1070	-.0630	-.0540
165.000									-.3810						
169.000							.5670								
172.000									.0200		-.6080	-.2120	-.2040	-.1130	-.1140
180.000	1.0700	.3970	-.2370	-.0930	.0740	.4700									

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI								-.0940		.0100
.000	.0640									-.1360
40.000	.1030	.0800		-.2350	-.3510	-.2160	-.1000			
70.000		-.2070	-.1790	-.1100	.0320	-.0150	-.0060	-.0510		
90.000		-.1460	-.0820	-.0260	-.0010	-.0630	-.0590	-.0910		
105.000				.0420	-.0430	-.0610	-.0850	-.1240		
110.000									-.2230	
120.000		-.0940	.0770	.2310	-.1840	-.1420	-.0810	-.0050	-.1600	
135.000				.2970	-.0560	-.1840	-.1120	-.1550		
150.000		-.0470	.0770	.1120	-.1100	-.1580	-.1250	-.2130		
165.000		-.0410		.1280	.1020	-.0890	-.1380	-.2770		
180.000		-.0750	.0070	.0540						

MACH (1) = .597 BETAT (4) = 3.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0800	.5420	.0000	-.6230	-.1210	-.0640			-.0790		-.0940	-.0870	-.0540	-.0150	.0340
20.000			-.2180	-.5520	-.1230	-.0710			-.0820		-.1040				
40.000			-.0690	-.4020	-.0900	-.0770			-.0830		-.1390	-.1190	-.0460	-.0190	.0110
55.000			-.0160	-.3310	-.0280	-.0070			-.0360		-.1030				
70.000			-.0270	-.2950	-.0470	.0060			-.0460		-.1490	-.0180	-.0330	-.0450	-.0430
90.000		.6280	-.0800	-.2940	.0060	.0130			-.0540		-.1850	-.0740	-.0330	-.0510	-.0700
120.000			-.0330	-.1750	.0580	.0910			-.0640		-.3250	-.0320	-.0230	-.0220	-.0340
142.000										-.4870					
150.000			-.1020	-.1070	.0920	.3200			-.1840		-.4830	-.0810	-.0470	-.0180	-.0450
157.000								.2240							
162.000									-.3300						
165.000											-.4050	-.0970	-.0510	-.0210	-.0360
169.000									-.3930						
172.000															

5670

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBM008)

MACH (1) = .597 BETAT (4) = -2.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0800	.4120	-.2300	-.0860	.0900	.4860			.0380		-.5890	-.1900	-.1550	-.0720	-.0380

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0780							-.0890		-.0050
40.000	.0800	.0350		-.2320	-.3150	-.1830	-.0840			-.1370
70.000		-.2070	-.1970	-.1420	-.0040	-.0450	-.0280	-.0650		
90.000		-.1530	-.0960	-.0670	-.0450	-.0890	-.0790	-.1050		
105.000				-.0260	-.0960	-.0910	-.1030	-.1340		
110.000									-.2310	
120.000		-.0840	.0710	.1380	-.2640	-.1760	-.1020	-.1080	-.1710	
135.000				.3390	-.0380	-.2060	-.1330	-.1660		
150.000		-.0400	.0880	.1560	-.0680	-.1860	-.1640	-.2250		
165.000		-.0320		.1480	.0980	-.1370	-.1650	-.2670		
180.000		-.0390	.0380	.0690						

MACH (1) = .598 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0880	.5330	.0000	-.6180	-.1210	-.0610			-.0740		-.0870	-.0770	-.0450	.0090	.0480
20.000			-.2670	-.3650	-.1180	-.0620			-.0720		-.0960				
40.000			-.1590	-.4520	-.1030	-.0660			-.0780		-.1460	-.1240	-.0550	-.0100	.0450
55.000			-.1370	-.4150	-.0730	-.0390			-.0700		-.1280				
70.000			-.1590	-.3840	-.0960	-.0290			-.0810		-.1750	-.4300	-.1370	-.0530	-.0470
90.000		.5280	-.2080	-.3690	-.0430	-.0260			-.0930		-.2110	-.4810	-.1340	-.0580	-.0660
120.000			-.1820	-.2440	.0080	.0380			-.1480		-.3290	-.3260	-.1200	-.0630	-.0460
142.000										-.5240					
150.000			-.1490	-.1380	.0710	.2830			-.2360		-.5470	-.2130	-.1070	-.0610	-.0410
157.000								.1570							
162.000									-.3960						
165.000											-.5000	-.1950	-.1000	-.0550	-.0450
169.000									-.4080						
172.000							.5550								
180.000	1.0880	.4230	-.2060	-.0680	.0960	.4910			.0450		-.5710	-.1790	-.1360	-.0680	-.0400

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0880							-.0940		-.0280
40.000	.0670	-.0060		-.2200	-.2820	-.1660	-.0870			-.1390

AMES 11-7X7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM808)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2080	-.2100	-.1640	-.0400	-.0680	-.0450	-.0780		
90.000		-.1460	-.1120	-.1090	-.0950	-.1150	-.1000	-.1150		
105.000				-.0890	-.1370	-.1180	-.1250	-.1490		
110.000									-.2370	
120.000		-.0740	.0610	.0350	-.3350	-.2010	-.1200	-.1270	-.1720	
135.000				.3660	-.0750	-.2440	-.1590	-.1740		
150.000		-.0340	.0900	.2090	-.0370	-.2310	-.2010	-.2440		
165.000		-.0290		.1660	.1070	-.1940	-.2280	-.2680		
180.000		-.0280	.0510	.0760						

MACH (1) = .599 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0790	.5460	.0000	-.6380	-.1250	-.0720			-.0830		-.1010	-.0880	-.0540	-.0110	.0330
20.000			-.3180	-.3940	-.1270	-.0740			-.0820		-.1160				
40.000			-.2670	-.5140	-.1290	-.0760			-.0960		-.1670	-.1900	-.0750	-.0260	.0280
55.000			-.2610	-.5130	-.1190	-.0780			-.1080		-.1660				
70.000			-.2920	-.4800	-.1410	-.0690			-.1250		-.2090	-.4470	-.1490	-.0850	-.0320
90.000		.4220	-.3380	-.4650	-.1000	-.0760			-.1440		-.2430	-.4900	-.1410	-.0390	-.0640
120.000			-.2870	-.3180	-.0470	-.0220			-.2410		-.3440	-.3290	-.1210	-.0610	-.0420
142.000										-.6060					
150.000			-.2010	-.1780	.0330	.2280			-.2970		-.5320	-.2180	-.1120	-.0630	-.0420
157.000								.0720							
162.000									-.4820						
165.000											-.5100	-.1940	-.1040	-.0570	-.0520
169.000									-.4410						
172.000							.5270								
180.000	1.0790	.4230	-.2150	-.0830	.0870	.4810			.0290		-.5940	-.1900	-.1510	-.0780	-.0590

X/LB	.5873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0750							-.0910		-.0610
40.000	.0380	-.0480		-.2210	-.2680	-.1680	-.1040			-.1640
70.000		-.2110	-.2240	-.1950	-.0760	-.0980	-.0690	-.0940		
90.000		-.1450	-.1280	-.1510	-.1320	-.1440	-.1230	-.1310		
105.000				-.1410	-.1880	-.1430	-.1470	-.1640		
110.000									-.2560	
120.000		-.0640	.0310	-.0690	-.4400	-.2440	-.1520	-.1430	-.1920	
135.000				.3760	-.1220	-.2990	-.1980	-.2040		
150.000		-.0380	.0850	.2297	-.0200	- 2820	-.2500	-.2680		

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMBD8)

MACH (1) = .599 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0330		.1800	.1010	-.2650	-.2750	-.2590		
180.000		-.0460	.0340	.0650						

MACH (1) = .596 BETAT (7) = 4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0650	.5100	.0000	-.6430	-.1410	-.0900			-.0990		-.1150	-.1040	-.0780	-.0270	.0190
20.000			-.3760	-.6170	-.1380	-.0970			-.0990		-.1360				
40.000			-.3630	-.5710	-.1570	-.0930			-.1090		-.1880	-.1650	-.0910	-.0400	.0060
55.000			-.3880	-.5820	-.1600	-.1070			-.1340		-.1820				
70.000			-.4260	-.5660	-.1810	-.1070			-.1450		-.2310	-.4570	-.1500	-.0800	-.0470
90.000		.3130	-.4570	-.5490	-.1370	-.1140			-.1790		-.2640	-.4860	-.1400	-.0990	-.0570
120.000			-.3690	-.3850	-.0980	-.0770			-.3180		-.3500	-.3260	-.1220	-.0570	-.0380
142.000										-.7340					
150.000			-.2540	-.2170	-.0060	.1680			-.3570		-.5080	-.2290	-.1180	-.0660	-.0470
157.000								-.0190							
162.000									-.5640						
165.000											-.5150	-.1970	-.1100	-.0710	-.0670
169.000									-.4680						
172.000							.4860								
180.000	1.0650	.4190	-.2150	-.0920	.0730	.4600			.0090		-.5990	-.2060	-.1720	-.1030	-.1110

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0640							-.0970		-.0950
40.000	.0260	-.0690		-.1850	-.1950	-.1420	-.1020			-.2180
70.000		-.2060	-.2380	-.2160	-.1050	-.1180	-.0890	-.1100		
97.000		-.1430	-.1470	-.1790	-.1630	-.1640	-.1370	-.1400		
105.000				-.1890	-.2340	-.1900	-.1680	-.1770		
110.000									-.2600	
120.000		-.0830	.0210	-.1290	-.5210	-.2780	-.1780	-.1430	-.2130	
135.000				.3500	-.1610	-.3570	-.2400	-.2280		
150.000		-.0440	.0750	.2630	-.0020	-.3330	-.2860	-.2840		
165.000		-.0600		.1630	.0970	-.3600	-.3270	-.2700		
180.000		-.0810	.0040	.0440						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (1) = .598 BETAT (8) = 6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIAB'% CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0440	.4240	.0000	-.6680	-.1670	-.1250			-.1300		-.1560	-.1380	-.1100	-.0530	-.0220
20.000			-.4270	-.6580	-.1680	-.1300			-.1300		-.1700				
40.000			-.4670	-.6420	-.1970	-.1280			-.1440		-.2320	-.2040	-.1240	-.0680	-.0070
55.000			-.5180	-.6780	-.2030	-.1450			-.1660		-.2120				
70.000			-.5630	-.6780	-.2220	-.1360			- 1800		-.2540	-.4680	-.1610	-.0720	-.0470
90.000		.1980	-.5980	-.6500	-.1790	-.1530			-.2230		-.2860	-.4850	-.1410	-.0640	-.0570
120.000			-.4880	-.4740	-.1600	-.1450			-.4160		-.3580	-.3320	-.1230	-.0630	-.0430
142.000										-.9400					
150.000			-.3320	-.2880	-.0690	.0910			-.4290		-.5010	-.2400	-.1260	-.0790	-.0500
157.000								-.1300							
162.000									-.3670						
165.000											-.5470	-.2110	-.1320	-.1070	-.0980
169.000									-.5150						
172.000							.4260								
180.000	1.0440	.3880	-.2540	-.1240	.0390	.4210			-.0260		-.6350	-.2450	-.2060	-.2050	-.1800

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0420							-.1120		-.1470
40.000	.0100	-.0800		-.1510	-.1700	-.1630	-.1240			-.2450
70.000		-.2170	-.2560	-.2430	-.1360	-.1460	-.1200	-.1350		
90.000		-.1560	-.1640	-.2160	-.1930	-.1910	-.1660	-.1660		
105.000				-.2270	-.2780	-.2240	-.1910	-.1970		
110.000									-.2850	
120.000		-.0970	-.0020	-.2220	-.6280	-.3230	-.2110	-.1960	-.2320	
135.000				.3780	-.2150	-.4320	-.2930	-.2640		
150.000		-.0620	.0380	.2290	-.0140	-.3740	-.3200	-.2990		
165.000		-.1060		.1460	.0740	-.4690	-.4020	-.3000		
180.000		-.1300	-.0480	-.0160						

MACH (1) = .599 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0050	.4430	.0000	-.7060	-.2190	-.1650			-.1700		-.1980	-.1820	-.1340	-.0830	-.0560
20.000			-.5180	-.7070	-.2160	-.1710			-.1780		-.2150				
40.000			-.6065	-.7070	-.2460	-.1760			-.1890		-.2820	-.2370	-.1680	-.0950	-.0290
55.000			-.6530	-.7870	-.2450	-.1790			-.1930		-.2370				
70.000			-.7090	-.8070	-.2640	-.1690			-.2110		-.2690	-.4720	-.1660	-.0630	-.0470
90.000		.0660	-.7360	-.7590	-.2250	-.1980			-.2600		-.3080	-.4790	-.1410	-.0640	-.0600
120.000			-.5990	-.5720	-.2280	-.2200			-.4990		-.3760	-.3380	-.1350	-.0730	-.0410

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB08)

MACH (1) = .599 BETAT (9) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1220					
150.000			-.4040	-.3550	-.1580	.0020			-.5000		-.5030	-.2580	-.1510	-.0910	-.0650
157.000								-.2590							
162.000									-.7890						
165.000											-.6040	-.2320	-.1780	-.1610	-.1460
169.000									-.5700						
172.000							.3410								
180.000	1.3050	.3590	-.2740	-.1600	-.0060	.3580			-.0770		-.7190	-.2940	-.2690	-.3450	-.2480

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0390							-.1240		-.1590
40.000	.0050	-.0640		-.1970	-.2030	-.1560	-.1570			-.2020
70.000		-.2160	-.2750	-.2750	-.1560	-.1820	-.1510	-.1710		
90.000		-.1500	-.1840	-.2480	-.2250	-.2280	-.2030	-.1960		
105.000				-.2580	-.3130	-.2620	-.2290	-.2270		
110.000									-.2970	
120.000		-.1090	-.0350	-.2780	-.7250	-.3680	-.2420	-.2240	-.2590	
135.000				.3890	-.2260	-.5050	-.3520	-.2980		
150.000		-.1060	-.0260	.1060	-.1680	-.4550	-.3950	-.3340		
165.000		-.1530		.0880	.0110	-.5750	-.4690	-.3280		
180.000		-.1950	-.1030	-.0790						

MACH (2) = .902 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1650	.7200	.0000	-.8520	-.3140	-.1240			-.1500		-.2280	-.3210	-.2520	-.0980	.0580
20.000			.1040	-.6420	-.3420	-.1460			-.1340		-.2120				
40.000			.3110	-.3730	-.1440	-.1960			-.1630		-.2300	-.2950	-.1170	.0170	.1400
55.000			.3950	-.1880	.0560	.1210			.1000		.0000				
70.000			.3910	-.1410	.0700	.1610			.1190		-.0260	-.6060	-.1080	.0290	.0490
90.000		.9510	.3910	-.1550	.1360	.2000			.1400		-.0580	-.7420	-.1490	.0020	-.0030
120.000			.1520	-.1120	.1610	.3070			.2510		-.2100	-.6410	-.1740	-.0570	-.0450
142.000										-.5180					
150.000			.0120	-.1780	.1180	.5070			.2070		-.6875	-.6860	-.1375	-.0610	-.0220
157.000								.5390							
162.000									.5870						
165.000											-.5730	-.3601	-.081	-.037	-.[illegible]
169.000									-.1590						
172.000							.177								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (2) = .902 BETAT (1) = -6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1630	.4900	-.2590	-.2960	.0020	.5390			.1980		-1.1380	-.9060	-.3610	-.2700	-.1470

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1350							-.0930		-.0490
40.000	.2440	.3100		-.0220	-.2180	-.3000	-.1790			-.1370
70.000		-.2290	-.2940	-.1000	.0840	.0630	.1050	.0620		
90.000		-.1890	-.1640	.0270	.0360	.0140	.0560	.0450		
105.000				.1270	-.0050	-.0190	.0330	.0120		
110.000									-.2210	
120.000		-.1710	.0460	.4010	-.1460	-.0660	.0360	.0160	-.1500	
135.000				.2780	-.0380	-.1160	-.0130	-.0610		
150.000		-.0940	.0910	.0940	-.1570	-.0350	.0220	-.1210		
165.000		-.0630		.1430	.1140	.0360	.0370	-.3120		
180.000		-.1370	-.0110	.0310						

MACH (2) = .901 BETAT (2) = -6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1620	.7370	.0000	-.8720	-.3080	-.0890			-.1120		-.1970	-.2970	-.1610	-.0590	.0350
20.000			.0780	-.6980	-.3660	-.0970			-.0990		-.1870				
40.000			.2470	-.4950	-.2090	-.1230			-.1290		-.2120	-.2950	-.1050	.0180	.1240
55.000			.3030	-.3490	-.0080	.0970			.0590		-.0470				
70.000			.2910	-.2950	.0110	.1320			.0760		-.0770	-.6370	-.1660	.0160	.0330
90.000		.8950	.2040	-.2840	.0770	.1640			.0920		-.1080	-.7650	-.1940	-.0010	-.0140
120.000			.0720	-.2010	.1210	.2780			.1850		-.2290	-.8610	-.1840	-.0360	-.0350
142.000										-.6240					
150.000			-.0380	-.2940	.1140	.5020			.1890		-.6810	-.6730	-.1140	-.0390	-.0190
157.000								.5170							
162.000									.0570						
165.000											-.7330	-.5530	-.1050	-.0150	-.0040
169.000									-.1220						
172.000							.7300								
180.000	1.1620	.4940	-.2730	-.3230	.0280	.5770			.2200		-1.1460	-.4750	-.3140	-.0950	-.1420

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1370							-.1010		-.0370
40.000	.2140	.2650		-.0530	-.2350	-.2670	-.1570			-.1270

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (R3MB08)

MACH (2) = .901 BETAT (2) = -6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5013	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2270	-.2830	-.1480	.0830	.0280	.0850	.0530		
90.000		-.1810	-.1510	-.0250	-.0360	-.0230	.0390	.0310		
105.000				.0710	-.1000	-.0590	.0100	-.0040		
110.000									-.2200	
120.000		-.1380	.0480	.3320	-.2510	-.1080	.0120	-.0040	-.1550	
135.000				.3200	-.0500	-.1370	-.0240	-.0750		
150.000		-.0720	.0910	.1320	-.1320	-.0860	-.0200	-.1480		
165.000		-.0470		.1580	.1100	-.0200	-.0200	-.3110		
180.000		-.0980	.0140	.0610						

MACH (2) = .899 BETAT (3) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2000	.7490	.0000	-.8860	-.5030	-.0530			-.0840		-.1740	-.2340	-.1110	-.0240	.0840
20.000			.0470	-.7350	-.4090	-.0630			-.0700		-.1700				
40.000			.1820	-.5780	-.2580	-.0850			-.0980		-.2000	-.2850	-.0790	.0210	.1150
55.000			.2180	-.5060	-.0820	.0680			.0200		-.0890				
70.000			.1910	-.4930	-.0520	.0940			.0280		-.1270	-.0640	-.1430	.0090	.0240
90.000		.0250	.1020	-.4660	.0310	.1220			.0410		-.1530	-.7870	-.1810	.0010	-.0150
120.000			.0020	-.3580	.0900	.2410			.1020		-.2970	-.8800	-.1750	-.0200	-.0160
142.000										-.7900					
150.000			-.0700	-.3590	.1110	.4900			.1640		-.7210	-.6580	-.0920	-.0170	-.0070
157.000								.4860							
162.000									.0360						
165.000											-.8940	-.4830	-.0910	.0030	-.0010
169.000									-.1060						
172.000							.7480								
180.000	1.2000	.5130	-.2680	-.3130	.0680	.6090			.2360		-1.2220	-.4190	-.2800	-.0340	-.0550

X/LB	.5873	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1440							-.0910		-.0140
40.000	.1840	.2110		-.0910	-.2600	-.2490	-.1370			-.1250
70.000		-.2190	-.2710	-.1890	-.0410	-.0120	.0610	.0390		
90.000		-.1650	-.1400	-.0660	-.1250	-.0600	.0130	.0130		
105.000				.0190	-.1910	-.0930	-.0140	-.0210		
110.000									-.2340	
120.000		-.1160	.0610	.2570	-.3330	-.1400	-.0140	-.0260	-.1660	
135.000				.3580	-.0510	-.1630	-.0450	-.0930		
150.000		-.0560	.0990	.1710	-.0850	-.1400	-.0670	-.1800		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM808)

MACH (2) = .899 BETAT (3) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0410		.1730	.1130	-.0910	-.0850	-.3080		
180.000		-.0710	.0480	.0970						

MACH (2) = .900 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2120	.7420	.0000	-.8950	-.5520	-.0270			-.0680		-.1600	-.2040	-.1040	.0050	.0850
20.000			.0240	-.7620	-.5760	-.0380			-.0660		-.1700				
40.000			.1200	-.6370	-.4040	-.0520			-.0810		-.2040	-.2770	-.0920	.0220	.0980
55.000			.1380	-.5980	-.1440	.0350			-.0120		-.1410				
70.000			.0980	-.6150	-.1050	.0580			-.0130		-.1970	-.6890	-.1440	.0060	.0150
90.000		.7560	.0130	-.6220	-.0140	.0850			-.0090		-.2310	-.8020	-.2190	.0060	-.0110
120.000			-.0730	-.4850	.0560	.2010			.0220		-.4970	-.8940	-.1640	.0020	-.0030
142.000										-.9230					
150.000			-.1070	-.4240	.1050	.4650			.1320		-.8080	-.6890	-.0830	.0030	.0040
157.000								.4400							
162.000									-.0040						
165.000											-.9670	-.5170	-.0870	.0160	-.0010
169.000									-.0990						
172.000							.7510								
180.000	1.2120	.5520	-.2610	-.3410	.0930	.6300			.2510		-1.2410	-.4200	-.1960	.0010	-.0070

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1540							-.0790		-.0790
40.000	.1580	.1520		-.1250	-.2780	-.2190	-.1030			-.1720
70.000		-.2020	-.2580	-.2150	-.1080	-.0680	.0320	.0180		
90.000		-.1510	-.1340	-.1020	-.1990	-.1110	-.0120	-.0090		
105.000				-.0310	-.2680	-.1270	-.0380	-.0410		
110.000									-.2430	
120.000		-.0830	.0670	.1630	-.3960	-.1610	-.0400	-.0410	-.1740	
135.000				.3670	-.0470	-.2080	-.0830	-.1140		
150.000		-.0400	.1060	.2190	-.0410	-.2210	-.1210	-.2110		
165.000		-.0360		.1850	.1090	-.1830	-.1380	-.3020		
180.000		-.0340	.0620	.1100						

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (2) = .902 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2120	.7580	.0000	-.8970	-.5130	-.0280			-.0650		-.1640	-.2090	-.1050	.0080	.0830
20.000			-.0400	-.8210	-.6340	-.0300			-.0640		-.1890				
40.000			-.0090	-.7390	-.5640	-.0250			-.0710		-.2400	-.2830	-.0980	.0020	.0740
55.000			-.0310	-.7540	-.5310	-.0120			-.0760		-.2460				
70.000			-.0840	-.7940	-.2950	.0000			- 0830		-.3560	-.7560	-.1270	-.0040	.0110
90.000		.6040	-.1630	-.7940	-.0670	.0080			-.0970		-.4000	-.8350	-.1700	.0060	-.0010
120.000			-.2050	-.6920	-.0500	.1000			-.1370		-.6050	-.7780	-.1550	.0120	.0120
142.000										-1.1530					
150.000			-.1880	-.5100	.0300	.3820			.0500		-.6590	-.5870	-.2400	.0340	.0160
157.000								.3060							
162.000									-.1120						
165.000											-.7110	-.6190	-.2760	.0410	.0090
169.000									-.1040						
172.000							.7110								
180.000	1.2120	.5300	-.2620	-.3310	.0920	.6270			.2450		-1.2310	-.4320	-.2140	.0000	-.0060

X/LB	.5875	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1520							-.0700		-.0590
40.000	.1120	.0320		-.1760	-.2920	-.2130	-.1020			-.1650
70.000		-.1700	-.2150	-.2590	-.2060	-.3170	-.0570	-.0440		
90.000		-.1130	-.1070	-.1800	-.2950	-.3960	-.0950	-.0720		
105.000				-.1410	-.3600	-.4750	-.1160	-.1010		
110.000									-.2650	
120.000		-.0570	.0510	-.0480	-.5170	-.5450	-.1160	-.1090	-.2050	
139.000				.3440	-.0660	-.5880	-.1970	-.1830		
150.000		-.0230	.0990	.2690	.0440	-.4350	-.2630	-.2640		
165.000		-.0240		.1980	.1410	-.3660	-.3190	-.2890		
180.000		-.0400	.0640	.1070						

MACH (2) = .903 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2010	.7450	.0000	-.8970	-.5110	-.0360			-.0800		-.1640	-.2070	-.1050	-.0150	.0820
20.000			-.0790	-.8440	-.6410	-.0510			-.0800		-.2040				
40.000			-.0800	-.7930	-.6170	-.0350			-.0850		-.2700	-.3260	-.1210	-.0110	.0560
55.000			-.1170	-.8280	-.6260	-.0360			-.1000		-.2880				
75.000			-.1740	-.8670	-.5300	-.0230			-.1150		.3900	-.7850	-.1450	-.0120	.0140
90.000		.5240	-.2450	-.8660	-.1370	-.0170			-.1410		.6530	-.8240	-.1810	-.0110	.0210
120.000			-.2680	-.7720	-.1310	.0310			-.2160		-.6560	-.3440	.2170	.0110	.0490

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (2) = .903 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1960					
150.000			-.2270	-.5340	-.0310	.3240			-.0030		-.6890	-.6060	-.3200	.0230	.0170
157.000								.2210							
162.000									-.1740						
165.000											-.7410	-.6050	-.3060	.0180	-.0060
169.000									-.1180						
172.000							.6670								
180.000	1.2010	.5290	-.2620	-.2910	.0640	.6020			.2290		-1.2050	-.4400	-.2360	-.0430	-.0530

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1470							-.0680		-.0210
40.000	.0880	-.0310		-.1560	-.2330	-.1680	-.1050			-.2350
70.000		-.1540	-.2070	-.2730	-.2360	-.4470	-.0960	-.0800		
90.000		-.1030	-.1090	-.2010	-.3260	-.5050	-.1500	-.1030		
105.000				-.1750	-.4010	-.5160	-.1780	-.1330		
110.000									-.2830	
120.000		-.0540	.0380	-.1000	-.5760	-.5760	-.2240	-.1300	-.2200	
135.000				.3840	-.0460	-.6440	-.4860	-.1950		
150.000		-.0300	.0810	.2280	.0310	-.4410	-.4520	-.2900		
165.000		-.0400		.1850	.1240	-.4090	-.4250	-.3080		
180.000		-.0720	.0420	.0950						

MACH (2) = .904 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1800	.7170	.0000	-.8840	-.2760	-.0950			-.1110		-.2060	-.3020	-.1580	-.0410	.0410
20.000			-.1090	-.8590	-.4240	-.0890			-.1060		-.2380				
40.000			-.1440	-.8360	-.6740	-.0620			-.1090		-.3110	-.3940	-.1490	-.0390	.0480
55.000			-.1990	-.8930	-.7100	-.0610			-.1230		-.3240				
70.000			-.2710	-.9420	-.6820	-.0510			-.1410		-.4350	-.8100	-.1620	-.0140	.0140
90.000		.4300	-.3300	-.9420	-.4260	-.0620			-.1780		-.5250	-.8450	-.1970	-.0080	.0040
120.000			-.3440	-.8330	-.2490	-.0190			-.2950		-.6800	-.6630	-.2820	.0060	.0110
142.000										-1.2210					
150.000			-.2790	-.5550	-.1150	.2500			-.0730		-.7010	-.6280	-.3760	.0090	-.0170
157.000								.1200							
162.000									-.2430						
165.000											-.7310	-.6150	-.3450	-.0290	-.016
169.000									-.1380						
172.000							.4070								

AMES 11-707 IA9 OEA + 33 + T2 ORBITER FUSELAGE (RB:B08)

MACH (2) = .904 BETAT (7) = 8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1800	.5080	-.2790	-.2720	.0200	.5590			.2020		-1.1570	-.4920	-.2440	-.0830	-.1250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
								-.1000		-.0170
.000	.1410									-.2870
40.000	.0750	-.3440		-.1670	-.2100	-.2060	-.1260			
70.000		-.1490	-.1990	-.2760	-.2490	-.5050	-.1660	-.1200		
90.000		-.1000	-.1090	-.2090	-.3380	-.5300	-.2210	-.1260		
105.000				-.1820	-.4280	-.5370	-.2620	-.1560		
110.000									-.2950	
120.000		-.0580	.0320	-.1040	-.6070	-.6070	-.3870	-.1680	-.2290	
135.000				.4090	-.0530	-.6980	-.5620	-.3080		
150.000		-.0680	.0390	.1520	-.0270	-.4660	-.5440	-.4520		
165.000		-.0800		.1520	.1010	-.4560	-.4900	-.3320		
160.000		-.1010	.0130	.0590						

MACH (2) = .901 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1490	.6390	.0090	-.0770	-.2970	-.1340			-.1470		-.2410	-.1350	-.2030	-.0620	.0010
20.000			-.1540	-.6790	-.3450	-.1200			-.1420		-.2770				
40.000			-.2190	-.8940	-.6310	-.0930			-.1440		-.3640	-.4490	-.1670	-.0890	.0250
55.000			-.2950	-.9640	-.7680	-.0830			-.1490		-.3570				
70.000			-.3170	-1.0210	-.7240	-.0720			-.1670		-.4650	-.8140	-.1500	-.0220	.0240
90.000		.3410	-.4250	-1.0090	-.6340	-.0990			-.2170		-.5750	-.8360	-.1860	-.0240	.0140
120.000			-.4380	-.8760	-.3720	-.0990			-.3850		-.7800	-.5770	-.2690	-.0940	.0130
142.000										-1.2690					
150.000			-.3120	-.5560	-.1930	.1650			-.1550		-.7340	-.6080	-.3920	-.0890	.0280
157.000								.0220							
162.000									-.3020						
165.000											-.6840	-.5970	-.3760	-.0970	-.0690
169.000									-.1550						
172.000							.5280								
180.000	1.1490	.9010	-.2660	-.2580	-.0150	.5050			.1660		-.3820	-.2310	-.2540	.0170	-.1910

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
								-.0970		.0370
.000	.1250									-.1610
10.000	.0880	-.0300		-.2120	-.2160	-.1940	-.1170			

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (2) = .901 BETAT (8) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1470	-.2050	-.2770	-.2470	-.5270	-.2410	-.1660		
90.000		-.0950	-.1150	-.2140	-.3370	-.5350	-.3400	-.1690		
105.000				-.1760	-.4320	-.5470	-.4340	-.2000		
110.000									-.3000	
120.000		-.0580	.0240	-.0690	-.6040	-.6230	-.5720	-.2240	-.2340	
135.000				.3920	.0130	-.6920	-.6020	-.5620		
150.000		-.1170	-.0190	.0410	-.1710	-.5670	-.6670	-.5560		
165.000		-.1120		.1130	.0520	-.5260	-.5600	-.3500		
180.000		-.1420	-.0130	.0240						

MACH (3) = 1.099 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2230	.8330	.0000	-.4610	-.2250	-.4140			.0050		.0110	-.0880	-.2010	-.2910	-.3280
20.000			.3460	-.2920	-.2250	-.3040			-.0420		.0260				
40.000			.5460	-.0830	-.0220	-.0920			-.0710		-.0360	-.0780	-.0870	-.1300	-.0880
55.000			.6190	.0490	.1290	.2230			.2360		.1550				
70.000			.6090	.0610	.1430	.2650			.2700		.1260	-.3020	-.2170	-.1190	-.1080
90.000		1.0800	.5150	-.0110	.2000	.3000			.3000		.0870	-.3940	-.2700	-.1510	-.1480
120.000			.3590	-.0670	.2140	.4390			.3990		-.0650	-.4670	-.3780	-.2260	-.2170
142.000										-.2750					
130.000			.2270	-.1220	.1760	.6540			.4290		-.4020	-.3660	-.3760	-.2690	-.1950
157.000								.7110							
162.000									.3260						
165.000											-.4790	-.3000	-.3455	-.2430	-.1510
169.000									.1340						
172.000							.8650								
180.000	1.2230	.6740	-.0050	-.1660	.0900	.6910			.4170		-.8460	-.4910	-.5680	-.5447	-.3775

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							.0500		-.0930
40.000	.3220	.4620		.1990	.0680	-.4140	-.3150			-.1090
70.000		-.0410	-.2330	-.1410	.1310	-.0610	-.1650	-.1590		
90.000		-.0070	-.1720	.0870	.0410	-.0620	-.2050	-.2110		
105.000				.1820	.0280	-.0960	-.2290	-.2090		
110.000									-.2950	
120.000		-.0300	-.0470	.5480	.0290	-.1730	-.2000	-.1000	-.1730	
135.000				.3810	.1330	-.3110	-.0180	-.0080		
150.000		.0170	.1560	.1890	.0170	-.0820	.0810	-.0090		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RB=808)

MACH (3) = 1.099 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0370		.2600	.2820	.0340	.1130	-.2260		
180.000		-.0470	.0540	.1910						

MACH (3) = 1.100 BETAT (2) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5180
PHI															
.000	1.2490	.6590	.0000	-.4920	-.2600	-.3440			.1280		.0340	-.0510	-.1540	-.2470	-.2830
20.000			.3100	-.3340	-.2390	-.3960			.1390		.0340				
40.000			.4800	-.1500	-.0610	-.3960			.0590		-.0100	-.0680	-.0940	-.1290	-.1070
55.000			.5390	-.0450	.0780	-.0930			.2470		.1300				
70.000			.5240	-.0420	.1010	.0630			.2550		.0930	-.3270	-.2520	-.1450	-.1190
90.000		1.0320	.4370	-.1000	.2060	.1930			.2650		.0400	-.4120	-.3110	-.1530	-.1570
120.000			.3050	-.1390	.2180	.5880			.3330		-.1150	-.4830	-.3980	-.2190	-.1650
142.000										-.3640					
150.000			.2030	-.1830	.1940	.6410			.4100		-.1280	-.3880	-.3630	-.2880	-.1520
157.000								.6870							
162.000									.3060						
165.000											-.3920	-.3240	-.3420	-.2410	-.1120
169.000									.1500						
172.000							.8840								
180.000	1.2490	.6920	-.0030	-.1930	.1280	.7220			.4370		-.8090	-.5040	-.5560	-.4550	-.2520

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2190							.0290		-.0940
40.000	.2900	.4160		.1590	.0400	-.4250	-.2910			-.0980
70.000		-.0340	-.2320	-.1340	.1040	-.0880	-.1870	-.2010		
90.000		-.0080	-.1620	.0640	.0150	-.0930	-.2250	-.2140		
105.000				.1480	-.0080	-.1180	-.2510	-.2150		
110.000									-.3080	
120.000		-.0340	.0620	.4920	-.0210	-.2020	-.1960	-.1240	-.2000	
135.000				.4360	.1530	-.2970	-.0460	-.0330		
150.000		.0150	.1800	.2260	.0700	-.0920	.0410	-.0500		
165.000		.0400		.2740	.3000	.0170	.0620	-.2550		
180.000		.0090	.1340	.2180						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (3) = 1.100 BETAT (3) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1335	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3130	.8450	.0000	-.5600	-.3120	-.1940			.1720		.0620	-.0280	-.1210	-.2130	-.1330
20.000			.2430	-.4050	-.2940	-.2250			.1750		.0600				
40.000			.4110	-.2390	-.1750	-.3800			.1530		.0160	-.0490	-.0980	-.1320	-.1190
55.000			.4680	-.1560	-.0150	-.1260			.2580		.1060				
70.000			.4490	-.1550	-.0230	.0000			.2370		.0480	-.3450	-.2790	-.1730	-.1290
90.000		.9980	.3670	-.1910	.0460	.1170			.2160		-.0120	-.4270	-.3400	-.1820	-.1440
120.000			.2540	-.2060	.2330	.3360			.2490		-.1740	-.4990	-.4080	-.2280	-.1330
142.000										-.5390					
150.000			.1800	-.2380	.2150	.6220			.3820		-.4720	-.3990	-.3580	-.2320	-.1040
157.000								.6480							
162.000									.2750						
165.000											-.7430	-.3550	-.3470	-.1990	-.0940
169.000									.1590						
175.000							.9000								
180.000	1.3130	.7310	.0110	-.1970	.1770	.7550			.4450		-.7980	-.5240	-.4490	-.2430	-.1840

X/LB	.5873	.6628	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2120							-.0040		-.0860
40.000	.2490	.3490		.1090	.0320	-.4480	-.2500			-.0900
70.000		-.0390	-.2290	-.1330	.0730	-.1200	-.2210	-.2260		
90.000		-.0060	-.1620	.0370	-.0260	-.1220	-.2390	-.2330		
105.000				.1230	-.0570	-.1510	-.2740	-.2400		
110.000									-.3220	
120.000		-.0090	.0810	.4280	-.0610	-.2290	-.2070	-.1630	-.2370	
135.000				.4860	.1640	-.3000	-.0930	-.0820		
150.000		.0240	.1820	.2510	.1240	-.1420	- 0310	-.1080		
165.000		.0360		.2810	.3070	-.0300	.0180	-.2950		
180.000		-.0020	.1620	.2660						

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.007	.0188	.0339	.0602	.1335	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.8140	.0000	-.6140	-.2740	-.2080			.1810		.0650	-.0270	- 0[illegible]	- [illegible]	-.[illegible]
20.000			.1530	-.4980	-.3290	-.2260			.1890		.0560				
40.000			.3110	-.3380	-.1940	-.2290			.1750		.0120	-.0800	-.[illegible]	-.[illegible]	-.[illegible]
55.000			.3710	-.2500	-.1070	-.0820			.2340		.0620				
70.000			.3600	-.2480	-.1240	.0040			.2110		-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	
90.000		.3290	.2930	-.2700	-.1100	.0060			.1880		-.[illegible]	-.[illegible]	[illegible]		
120.000			.2170	-.2580	.0420	.2[illegible]			.1670		-.[illegible]	-.[illegible]	-.[illegible]		

MACH (3) = 1.099 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6420					
150.000			.1610	-.2670	.1930	.6100			.3490		-.5150	-.4450	-.3630	-.1870	-.0830
157.000								.6090							
162.000									.2370						
165.000											-.3030	-.3960	-.3620	-.1820	-.0820
169.000									.1600						
172.000							.9020								
180.000	1.3210	.7390	.0270	-.1920	.1970	.7760			.4510		-.7950	-.6040	-.3420	-.2140	-.0980

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							-.0040		-.0870
40.000	.2070	.2720		.0160	-.0340	-.4670	-.2180			-.1100
70.000		-.0410	-.2260	-.1290	.0350	-.1540	-.2480	-.2190		
90.000		-.0030	-.1370	.0090	-.0690	-.1610	-.2870	-.2280		
105.000				.0810	-.0930	-.1670	-.2960	-.2410		
110.000									-.3350	
120.000		.0070	.1210	.3440	-.1160	-.2720	-.1970	-.1850	-.2680	
135.000				.5130	.1770	-.2910	-.1210	-.1190		
150.000		.0270	.2040	.2830	.1860	-.1530	-.0920	-.1500		
165.000		.0340		.3050	.2990	-.0380	-.0690	-.3250		
180.000		.0140	.1710	.2710						

MACH (3) = 1.100 BETAT (5) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.8270	.0000	-.6110	-.2930	-.1910			.1830		.0890	-.0270	-.0950	-.1880	.0610
20.000			.0670	-.5740	-.3780	-.1930			.1670		.0430				
40.000			.1550	-.4840	-.3190	-.1880			.1470		-.0140	-.0960	-.1570	-.2260	.0540
55.000			.1830	-.4400	-.2950	-.0820			.1700		-.0200				
70.000			.1700	-.4390	-.3250	.0060			.1400		-.1010	-.4500	-.4080	-.2880	-.0780
90.000		.7800	.1240	-.4160	-.3010	.0830			.0210		-.1890	-.5160	-.4700	-.2230	-.0920
120.000			.0840	-.3610	-.1340	.2450			.0380		-.3460	-.5970	-.4540	-.1700	-.0500
142.000										-.7200					
150.000			.0860	-.3120	.0780	.5460			.2740		-.6220	-.5390	-.3290	-.1900	-.0330
157.000								.4980							
162.000									.1490						
165.000											-.8550	-.5440	-.350	-.1900	-.0750
169.000									.1560						
172.000							.8670								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (3) = 1.100 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0003	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3210	.7240	.0250	-.1600	.1690	.7710			.4450		-.7850	-.6320	-.3280	-.2120	-.0980

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1970							-.0080		-.0350
40.000	.1400	.0950		-.0480	-.1360	-.2290	-.1730			-.1540
70.000		-.0440	-.1430	-.0130	.0150	-.1870	-.2860	-.2700		
90.000		-.0020	.0020	.0200	-.0610	-.1860	-.2960	-.2750		
105.000				.0390	-.0820	-.1360	-.2970	-.2920		
110.000									-.3670	
120.000		.0140	.1790	.1820	-.1810	-.3060	-.2470	-.2920	-.3200	
135.000				.6040	.1910	-.3450	-.2460	-.2200		
150.000		.0270	.2420	.4150	.2790	-.1810	-.2450	-.2420		
165.000		.0310		.3950	.3360	-.0980	-.1790	-.3940		
180.000		.0140	.1700	.2680						

MACH (3) = 1.097 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3060	.6350	.0000	-.5490	-.2990	-.1900			.1770		.0550	-.0410	-.1340	-.2170	-.0980
20.000			.0840	-.5480	-.3150	-.1640			.1730		.0290				
40.000			.1110	-.5120	-.3750	-.1230			.1610		-.0300	-.1270	-.2060	-.2770	.0680
55.000			.1060	-.5020	-.3660	-.0920			.1370		-.0490				
70.000			.0790	-.5040	-.4080	-.0230			.0520		-.1410	-.4840	-.4470	-.3090	-.0780
90.000		.6990	.0410	-.4890	-.3820	.0420			-.0390		-.2450	-.5480	-.5040	-.2230	-.0790
120.000			.0170	-.4120	-.1780	.1930			-.0350		-.4910	-.6320	-.4770	-.1870	-.0720
142.000										-.7600					
150.000			.0460	-.3250	.0740	.4900			.2180		-.6880	-.6220	-.3190	-.2200	-.0890
157.000								.4190							
162.000									.0950						
165.000											-.8720	-.6030	-.3000	-.2290	-.1160
169.000									.1430						
172.000							.8220								
180.000	1.3060	.7110	.0150	-.1790	.1640	.7430			.4310		-.7850	-.5160	-.4270	-.2400	-.1960

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							-.0160		-.0520
40.000	.1460	-.0160		-.0690	-.1410	-.1980	-.1740			-.1790

AMES 11-7D7 IA9 OEA + B3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (3) = 1.097 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0320	-.0650	-.0300	-.0190	-.2260	-.3160	-.3020		
90.000		.0340	.0350	.0260	-.0910	-.2260	-.3230	-.3070		
105.000				.0310	-.1370	-.2270	-.3260	-.3200		
110.000									-.3870	
120.000		.0770	.1990	.1570	-.2340	-.3620	-.2780	-.2950	-.3440	
135.000				.6250	.1730	-.3930	-.3240	-.2810		
150.000		.1000	.2320	.4510	.2900	-.1940	-.2920	-.2940		
165.000		.0750		.4130	.3630	-.1350	-.2220	-.4220		
180.000		.0370	.1580	.2620						

MACH (3) = 1.100 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5180
PHI															
.000	1.2650	.8530	.0000	-.5160	-.2580	-.3470			.1480		.0390	-.0580	-.1680	-.2410	-.2650
20.000			.0860	-.5320	-.2930	-.2680			.1550		.0120				
40.000			.0660	-.5240	-.3990	-.1560			.1440		-.0520	-.1630	-.2950	-.3290	.0440
55.000			.0290	-.5550	-.4470	-.1270			.1070		-.0720				
70.000			-.0180	-.5750	-.4780	-.0360			-.0170		-.1760	-.3110	-.4800	-.3170	-.0590
90.000		.8140	-.0[illegible]0	-.5610	-.4560	.0280			-.0860		-.2930	-.5730	-.5310	-.2370	-.0570
120.000			-.0300	-.4670	-.1940	.1470			-.1060		-.5440	-.6660	-.4660	-.2130	-.0[illegible]3
142.000										-.7960					
150.000			-.0050	-.3530	-.0090	.4300			.1610		-.7560	-.6490	-.3550	-.2520	-.1050
157.000								.3480							
162.000									.0450						
165.000											-.8760	-.6460	-.3700	-.3000	-.1610
169.000									.1330						
172.000							.7740								
180.000	1.2650	.6760	-.0080	-.1840	.0980	.7060			.4180		-.7780	-.5060	-.5270	-.3900	-.2750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2220							.0110		-.0620
40.000	.1390	-.0360		-.1130	-.1760	-.1940	-.1610			-.2670
70.000		-.0130	-.0430	-.0220	-.0160	-.2290	-.3210	-.3220		
90.000		.0400	.0500	.0250	-.0860	-.2310	-.3300	-.3170		
105.000				.0310	-.1570	-.2490	-.3370	-.3340		
110.000									-.3910	
120.000		.0770	.1960	.1200	-.2700	-.3850	-.2950	-.3170	-.3680	
135.000				.6700	.1720	-.4240	-.3900	-.3220		
150.000		.0820	.2150	.4320	.2280	-.1950	-.3120	-.3250		

AMES 11-7D7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBWB08)

MACH (3) = 1.100 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0370		.4010	.3480	-.1950	-.2660	-.4390		
180.000		.0000	.1240	.2240						

MACH (3) = 1.101 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2190	.6260	.0000	-.4900	-.2400	-.3110			-.0600		.0270	-.0840	-.2020	-.2690	-.3320
20.000			.0740	-.5240	-.2590	-.4060			.0980		-.0150				
40.000			.0150	-.5510	-.4410	-.2430			.1070		-.0950	-.2150	-.3300	-.3930	-.0120
55.000			-.0420	-.6080	-.5050	-.1290			.0600		-.1110				
70.000			-.1090	-.6260	-.5450	-.0450			-.0710		-.2190	-.5440	-.5140	-.3210	.0080
90.000		.5110	-.1330	-.6160	-.5230	.0040			-.1320		-.3500	-.6160	-.5600	-.2530	-.0210
120.000			-.1190	-.5150	-.2250	.0900			-.1840		-.5930	-.7220	-.4460	-.2450	-.0490
142.000										-.8310					
150.000			-.0530	-.3620	-.0810	.3580			.0070		-.8170	-.6750	-.4310	-.2870	-.1530
157.000								.2720							
162.000									.0030						
165.000											-.8650	-.6550	-.4690	-.3980	-.2410
169.000									.1130						
172.000							.7020								
180.000	1.2190	.6540	-.0240	-.1570	.0490	.6590			.3870		-.8020	-.5230	-.5530	-.6470	-.4000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0210		-.0820
40.000	.1110	.0810		-.2040	-.2130	-.2070	-.2070			-.2760
70.000		-.0230	-.0380	-.0190	-.0200	-.2340	-.3200	-.3030		
90.000		.0230	.0480	.0310	-.0990	-.2510	-.3320	-.3110		
105.000				.0350	-.1680	-.2510	-.3320	- 3330		
110.000									-.3990	
120.000		.0540	.1770	.1070	-.2920	-.4130	-.3050	-.3260	-.3840	
135.000				.6610	.2140	-.4070	-.4050	-.3450		
150.000		.0350	.1540	.2650	-.0030	-.2690	-. 050	-.4180		
165.000		.0430		.3070	.2740	-.2270	-.3250	-.4550		
180.000		-.0580	.0650	.1940						

AMES 11-707 IA9 ORA + S3 + T9 ORBITER FUSELAGE (RBM808)

MACH (4) = 1.248 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2650	.9590	.0000	-.2580	-.0530	-.2550			-.2630		-.1570	-.0680	.0120	-.1260	-.2420
20.000			.3140	-.0900	-.0530	-.2510			-.2000		-.1110				
40.000			.7210	.1320	.1470	-.2220			-.1750		-.0560	-.0280	-.0800	.0270	-.0080
55.000			.7900	.2640	.2790	.0220			.0410		.2000				
70.000			.7670	.2640	.2650	.0880			.1490		.1740	-.1780	-.1900	-.0510	-.0330
90.000		1.1570	.6530	.1700	.2890	.1640			.2570		.1060	-.2500	-.2150	-.0900	-.0680
120.000			.4690	.0880	.2900	.4170			.4420		-.0020	-.3020	-.2560	-.1470	-.1290
142.000										-.1670					
150.000			.3340	-.0300	.2650	.6860			.5220		-.3000	-.2830	-.2460	-.1880	-.1400
157.000								.7890							
162.000									.4900						
165.000											-.3880	-.2010	-.2310	-.1750	-.1130
169.000									.2510						
172.000							.9340								
180.000	1.2650	.7290	.1130	-.0530	.1740	.7090			.5010		-.6210	-.3820	-.3820	-.4390	-.3870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1920							.0790		-.0950
40.000	-.0100	.5190		.1870	.1800	-.2210	-.5050			.0640
70.000		-.0610	-.1530	-.2450	.0080	-.0360	-.0960	-.1120		
90.000		-.0700	-.1220	.0670	-.0260	-.0040	-.1330	-.1540		
105.300				.1780	.0820	-.0380	-.1550	-.1730		
110.000									-.1950	
120.000		-.1500	-.1150	.6080	.1330	-.1350	-.1340	-.1160	-.0900	
135.000				.3260	.1790	-.2720	-.0730	.0580		
150.000		-.1010	.0770	.1290	.0600	-.0780	.1100	.0860		
165.000		-.0690		.2070	.3300	.0850	.1630	-.1120		
180.000		-.1710	.0010	.1800						

MACH (4) = 1.290 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2960	1.0280	.0000	-.3040	-.0760	-.1920			-.2240		-.0940	.1160	.0490	-.1260	-.2120
20.000			.4770	-.1520	-.0700	-.2240			-.2260		-.0530				
40.000			.6570	.0460	.1090	-.2090			-.2800		-.0130	.0090	.0110	-.0160	-.0340
55.000			.7030	.1560	.2140	-.0020			-.0070		.1970				
70.000			.6730	.1570	.1980	.0590			.1190		.1460	-.1930	-.1610	-.0770	-.0620
90.000		1.1040	.5670	.0810	.2290	.1610			.2240		-.0110	-.2560	-.2310	-.1040	-.0940
120.000			.4150	.0150	.2570	.4070			.3920		-.1230	-.3150	-.2750	-.1530	-.1300

AMES 11-707 IA3 O2A + S3 + T9 ORBITER FUSELAGE (RBMG02)

MACH (4) = 1.250 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.2490					
150.000			.3110	-.0750	.2740	.6870			.5080		-.3140	-.3440	-.2710	-.2010	-.1310
157.000								.7720							
162.000									.4150						
165.000											-.4600	-.2770	-.. 30	-.1860	-.1130
169.000									.2650						
172.000							.9510								
180.000	1.2980	.7540	.1130	-.0780	.2020	.7480			.5190		-.6010	-.3770	-.4220	-.3540	-.2970

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1040							.0530		-.0830
40.000	-.0480	.4700		.1120	.1730	-.2240	-.4340			.0480
70.000		-.1290	-.1620	-.2330	-.0030	-.0520	-.1170	-.1440		
90.000		-.1260	-.1190	.0630	-.0420	-.0280	-.1530	-.1760		
105.000				.1660	.0470	-.0850	-.1740	-.1910		
110.000									-.2050	
120.000		-.1420	-.0840	.5470	.1000	-.1650	-.1530	-.1060	-.1140	
135.000				.3630	.1910	-.2530	-.0540	.0310		
150.000		-.0950	.0820	.1510	.0990	-.0650	.0800	.0390		
165.000		-.0740		.2220	.3270	.0780	.1160	-.1510		
180.000		-.1390	.0100	.1820						

MACH (4) = 1.249 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3910	1.0120	.0000	-.3400	-.1650	-.0760			-.1750		-.1290	.1710	.0710	-.1010	-.1830
20.000			.4190	-.2110	-.1370	-.1940			-.1740		.0140				
40.000			.5860	-.0380	.0440	-.2100			-.2650		.0300	-.0130	.0810	-.0580	-.0490
55.000			.6240	.0380	.1280	-.0310			-.0320		.1770				
70.000			.5870	.0220	.1060	.0330			.0920		-.0530	-.2250	-.1910	-.1010	-.0840
90.000		1.0630	.4790	-.0170	.1290	.1540			.1920		-.1010	-.2810	-.2620	-.1190	-.1010
120.000			.3520	-.0440	.1700	.3950			.3420		-.1770	-.4130	-.2820	-.1550	-.1110
142.000										-.3610					
150.000			.2770	-.1050	.2030	.6830			.4890		-.3470	-.3920	-.3030	-.1960	-.1170
157.000								.7460							
162.000									.3920						
165.000											-.5540	-.3100	-.3070	-.1810	-.103.
169.000									.2810						
172.000							.9580								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RUN806)

MACH (4) = 1.249 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3910	.7210	.1170	-.0690	.1270	.7810			.5320		-.3850	-.4200	-.3600	-.2380	-.1740

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1000							.0300		-.0760
40.000	-.0680	.4090		.0560	.0960	-.2420	-.3310			.0180
70.000		-.1480	-.1500	-.1840	.0140	-.0630	-.1320	-.1640		
90.000		-.1250	-.1060	.0570	-.0430	-.0520	-.1690	-.1650		
105.000				.1430	.0140	-.0690	-.1880	-.1940		
110.000									-.2150	
120.000		-.1060	-.0180	.4620	.0530	-.1930	-.1470	-.1130	-.1400	
135.000				.4370	.2110	-.2240	-.0670	-.0080		
150.000		-.0640	.1250	.1950	.1490	-.0680	.0280	-.0230		
165.000		-.0540		.2330	.3260	.0670	.0620	-.1900		
180.000		-.1000	.0440	.2350						

MACH (4) = 1.246 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4060	.9770	.0000	-.4180	-.2170	-.0420			-.1810		-.2480	.1840	.0690	-.0870	-.1550
20.000			.3170	-.3110	-.2040	-.0442			-.1830		-.0740				
40.000			.4670	-.1490	-.0530	-.1020			-.1840		.0410	-.0380	.0310	-.0900	-.0750
55.000			.5130	-.0740	.0230	-.0270			-.0030		-.0170				
70.000			.4980	-.0810	-.0030	.0300			.0900		-.0790	-.2610	-.2950	-.1330	-.0960
90.000		1.0220	.4150	-.1070	.0050	.1630			.1760		-.1540	-.3940	-.3130	-.1360	-.1000
120.000			.3030	-.1070	.0520	.3880			.2950		-.2170	-.4550	-.3130	-.1650	-.1010
142.000										-.4930					
150.000			.2460	-.1430	.1400	.6820			.4620		-.3730	-.4030	-.3310	-.1950	- 0910
157.000								.7060							
162.000									.3580						
165.000											-.6000	-.3340	-.3300	-.1900	-.0800
169.000									.2770						
172.000							.9760								
180.000	1.4060	.7720	.1210	-.0790	.1130	.6290			.5330		-.5800	-.4790	-.2960	-.2430	-.0740

X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1110							.0310		-.0740
40.000	-.0650	.3380		-.0070	.0270	-.2750	-.2760			-.0030

AMES 11-7D7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB08)

MACH (4) = 1.248 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9399	1.0015	1.0392
PHI										
70.000		-.1510	-.1470	-.1480	.0080	-.0790	-.1530	-.1900		
90.000		-.1140	-.0980	.0470	-.0600	-.0730	-.1870	-.1930		
105.000				.1170	-.0140	-.1150	-.2010	-.1990		
110.000									-.2330	
120.000		-.0780	.0490	.3840	.0040	-.2240	-.1500	-.1260	-.1740	
135.000				.4800	.2370	-.2040	-.0870	-.0530		
150.000		-.0510	.1360	.2570	.2200	-.0530	-.0210	-.0760		
165.000		-.0440		.2840	.3320	.0680	.0200	-.2340		
180.000		-.0520	.0740	.2590						

MACH (4) = 1.246 BETAT (5) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3883	.3870	.0000	-.3940	-.2110	.0110			-.1660		-.2250	.1940	.0700	-.0860	-.1620
20.000			.2590	-.3650	-.2800	-.0100			-.1770		-.1930				
40.000			.3290	-.2850	-.2190	-.0060			-.1520		-.0630	.0570	-.0220	-.1230	-.1450
55.000			.3470	-.2470	-.1890	-.0070			-.0100		-.1270				
70.000			.3250	-.2470	-.2090	.0930			.0780		-.1640	-.3610	-.3030	-.1910	-.0920
90.000		.6920	.2710	-.2470	-.1730	.2010			.1350		-.2140	-.4730	-.3790	-.1720	-.0870
120.000			.2000	-.2010	-.0870	.3520			.1930		-.2850	-.5070	-.4330	-.1620	-.0630
142.000										-.5010					
150.000			.1970	-.1770	.0710	.6180			.3870		-.4360	-.4350	-.3410	-.2360	-.0550
157.000								.5870							
162.000									.2680						
165.000											-.6410	-.4070	-.2910	-.2560	-.0620
169.000									.2740						
172.000							.9240								
180.000	1.3880	.7550	.1170	-.0670	.1260	.8200			.5250		-.5760	-.4850	-.2960	-.2390	-.0740

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9699	1.0015	1.0392
PHI										
.000	.1200							.0330		-.0600
40.000	.1180	.1330		-.0810	-.0480	-.3330	-.1850			-.1450
70.000		-.1000	-.1250	-.0960	-.0160	-.1140	-.1940	-.2130		
90.000		-.0650	-.0400	.0120	-.0750	-.1190	-.2100	-.2070		
105.000				.0660	-.0630	-.1350	-.2110	-.2170		
110.000									-.2670	
120.000		-.0540	.1370	.4200	-.0680	-.2720	-.1840	-.1770	-.2320	
135.000				.5020	.2700	-.2270	-.1830	-.1650		
150.000		-.0410	.1720	.3440	.3340	-.0630	-.1260	-.1620		

AMES 11-707 IA9 OEA + 33 + 79 ORBITER FUSELAGE (RBME08)

MACH (4) = 1.246 BETAT (5) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0420		.3520	.3460	.0320	-.0610	-.3000		
180.000		-.0570	.0780	.2510						

MACH (4) = 1.246 BETAT (6) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1582	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	1.0020	.0000	-.3640	-.1960	-.0710			-.1700		-.0680	.1500	.0440	-.0980	-.1950
20.000			.2450	-.3670	-.2660	-.0440			-.1790		-.2190				
40.000			.2690	-.3200	-.2330	-.0290			-.1540		-.1520	.0560	-.0620	-.1550	-.1870
55.000			.2570	-.3090	-.2470	-.0340			-.0190		-.1700				
70.000			.2220	-.3030	-.2790	.0910			.0670		-.2020	-.4550	-.3240	-.2130	-.0840
90.000		.8000	.1720	-.3200	-.2420	.1640			.1050		-.2360	-.4980	-.4020	-.1780	-.0780
120.000			.1270	-.2530	-.1250	.3170			.1190		-.3180	-.5270	-.4540	-.1720	-.0580
142.000										-.5350					
150.000			.1450	-.1920	.0550	.5700			.3400		-.5030	-.4560	-.3180	-.2770	-.0350
157.000								.5300							
162.000									.2230						
165.000											-.6480	-.4530	-.2700	-.2680	-.0900
180.000									.2720						
172.000							.8840								
180.000	1.3630	.7260	.1160	-.0660	.1280	.7880			.5170		-.5730	-.4440	-.3500	-.2350	-.1340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							.0290		-.0710
40.000	.1450	.0580		-.0810	-.0750	-.2290	-.1540			-.1570
70.000		-.0740	-.1250	-.0880	-.0230	-.1290	-.2070	-.1860		
90.000		-.0440	-.0300	.0180	-.0810	-.1300	.2240	-.1700		
105.000				.0340	-.0880	-.1550	-.1870	-.1890		
110.000									-.2640	
120.000		-.0460	.1200	.1620	-.1200	-.3230	-.2020	-.1710	-.2350	
135.000				.6090	.2600	-.2640	-.2350	-.1830		
150.000		-.0460	.1260	.3820	.3410	-.0660	-.1630	-.1940		
165.000		-.0640		.3960	.4170	.0010	-.1020	-.3200		
180.000		-.1130	.0410	.2300						

AMES 11-7OT IA9 OEA + S9 + T9 ORBITER FUSELAGE (RBM008)

MACH (4) = 1.247 BETAT (7) = 6.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.9820	.0000	-.2980	-.0660	-.2090			-.2290		-.1010	.1390	.0360	-.1190	-.2210
20.000			.2750	-.3180	-.1900	-.1800			-.2070		-.1450				
40.000			.2470	-.3150	-.2420	-.1240			-.1470		-.1560	-.0110	-.1180	-.1960	-.2190
55.000			.2030	-.3380	-.2920	-.0560			-.0250		-.1920				
70.000			.1460	-.3670	-.3350	.0720			.0380		-.2190	-.4740	-.3490	-.2310	-.0790
90.000		.6850	.0880	-.3670	-.2890	.1610			.0650		-.2600	-.3170	-.4340	-.1820	-.0740
120.000			.0670	-.2950	-.1710	.2750			.0440		-.3550	-.5490	-.4640	-.1800	-.0620
142.000										-.5690					
150.000			.1030	-.2030	.0190	.5070			.2830		-.5550	-.4780	-.3110	-.2820	-.0580
157.000								.4620							
162.000									.1750						
165.000											-.6510	-.4960	-.2780	-.2990	-.1480
169.000									.2570						
172.000							.8380								
180.000	1.2950	.7190	.1030	-.0660	.1620	.7410			.4990		-.5730	-.4000	-.3840	-.2920	-.2880

X/LB	.5873	.6626	.7580	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1520							.0490		-.0790
40.000	.1280	-.0130		-.0490	-.1400	-.1880	-.1650			-.1690
70.000		-.0510	-.0520	-.0330	.0140	-.1280	-.2080	-.2270		
90.000		-.0270	.0910	.0420	-.0530	-.1270	-.2200	-.2140		
105.000				.0540	-.0620	-.1360	-.2200	-.2250		
110.000									-.2850	
120.000		-.0280	.1640	.1810	-.1330	-.3220	-.2000	-.2130	-.2640	
135.000				.7490	.2700	-.2760	-.2610	-.2510		
150.000		-.0510	.1650	.3910	.2300	-.0290	-.1610	-.1980		
165.000		-.0950		.4400	.4480	-.0200	-.1140	-.3300		
180.000		-.1430	.0260	.1940						

MACH (4) = 1.245 BETAT (8) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2810	.9320	.0000	-.2630	-.0490	-.2570			-.2320		-.1870	-.0830	.0240	-.1050	-.2490
20.000			.2460	-.3030	-.0680	-.2640			-.2660		-.1910				
40.000			.1740	-.3280	-.2440	-.2100			-.1850		-.1320	-.0630	-.1640	-.2400	-.2250
55.000			.1120	-.3830	-.3240	-.0940			-.0590		-.1930				
70.000			.0510	-.4130	-.3710	.0390			.0070		-.2410	-.4810	-.3940	-.2300	-.0570
90.000		.5960	.0070	-.4180	-.3390	.1340			.0270		-.2950	-.5370	-.4760	-.1850	-.0760
120.000			.0070	-.3320	-.2030	.2320			-.0200		-.3920	-.5750	-.4660	-.2240	-.0970

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNBOB)

MACH (4) = 1.245 BETAT (8) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5970					
150.000			.0700	-.2100	.0200	.4410			.2200		-.5980	-.5020	-.3220	-.3000	-.1490
157.000								.3980							
162.000									.1420						
165.000											-.6540	-.5180	-.3280	-.3670	-.2370
169.000									.2420						
172.000							.7740								
180.000	1.2610	.7100	.0980	-.0510	.1440	.6940			.4750		-.6020	-.3860	-.3830	-.4610	-.3930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2030							.0650		-.0920
40.000	.1070	-.0500		-.1700	-.1650	-.1770	-.1590			-.2440
70.000		-.0380	-.1140	-.0480	.0110	-.1380	-.2210	-.2430		
90.000		-.0100	-.0270	.0350	-.0720	-.1410	-.2340	-.2380		
105.000				.0440	-.0910	-.1540	-.2350	-.2510		
110.000									-.3030	
120.000		.0020	.1140	.1500	-.1670	-.3780	-.2250	-.2420	-.2970	
135.000				.7340	.2900	-.2670	-.2840	-.3110		
150.000		-.0310	.0040	.2720	.0810	-.1610	-.2600	-.3040		
165.000		-.0550		.3670	.3420	-.0670	-.1890	-.3670		
180.000		-.1790	-.0050	.1840						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB09) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.[illegible]) INCHES
LREF = 39.8490 INCHES YMRP = .00 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .598 BETAT (1) = -8.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0140	.5070	.0000	-.6810	-.1970	-.1450			-.1590		-.1710	-.1650	-.1400	-.1060	-.0410
20.000			-.1150	-.5370	-.2000	-.1330			-.1370		-.1990				
40.000			.1660	-.2410	-.0600	-.1240			-.1170		-.1360	-.0980	-.0330	.0280	.1020
55.000			.3210	-.0660	.1140	.1200			.0870		.0070				
70.000			.3250	-.0200	.1050	.1320			.0800		-.0430	-.3430	-.0920	-.0240	-.0420
90.000		.8430	.2360	-.0480	.1490	.1400			.0850		-.0910	-.4450	-.1220	-.3690	-.0970
120.000			.0840	-.0550	.1410	.1920			.1560		-.3290	-.3730	-.1790	-.1370	-.1390
142.000										-.4130					
150.000			-.0760	-.1090	.0790	.3500			-.0980		-.7260	-.2630	-.1610	-.1170	-.1090
157.000								.3140							
162.000									-.2470						
165.000											-.4840	-.2160	-.1260	-.0950	-.0880
169.000									-.4450						
172.000							.5030								
180.000	1.0180	.3280	-.3470	-.1840	-.0160	.3730			-.0740		-.6730	-.2980	-.3150	-.4020	-.2250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.0440							-.1130		-.0090
40.000	.1630	.1760		-.2240	-.3960	-.2670	-.1320			-.1070
70.000		-.2260	-.1650	-.0630	.0940	.0370	.0350	-.0250		
90.000		-.1830	-.0800	.0390	.0830	-.0190	-.0270	-.0690		
105.000				.1550	.0540	-.0190	-.0450	-.0970		
110.000									-.2120	
120.000		-.1660	.0420	.3730	-.0390	-.0970	-.0530	-.0730	-.1470	
135.000				.1320	-.1240	-.2080	-.1380	-.1810		
150.000		-.0960	.0230	.0070	-.2260	-.1160	-.0820	-.1820		
165.000		-.0730		.0640	.0590	-.0270	-.0670	-.2840		
180.000		-.1760	-.1010	-.0820						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RUN008)

MACH (1) = .597 BETAT (2) = -8.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0470	.5480	.0000	-.6320	-.1480	-.0980			-.1120		-.1300	-.1240	-.0900	-.0580	-.0030
20.000			-.1120	-.5210	-.1590	-.0970			-.0970		-.1220				
40.000			.1300	-.2820	-.0500	-.0900			-.0870		-.1220	-.0900	-.0280	.0240	.0940
55.000			.2280	-.1420	.0750	.0850			.0490		-.0250				
70.000			.2210	-.1000	.0790	.0940			.0410		-.0750	-.3750	-.1120	-.0390	-.0470
90.000		.7840	.1440	-.1200	.1040	.1050			.0400		-.1200	-.4620	-.1330	-.0720	-.0980
120.000			.0140	-.0970	.1070	.1670			.1020		-.3340	-.3640	-.1620	-.1170	-.1180
142.000										-.4390					
150.000			-.1100	-.1130	.0810	.3500			-.1340		-.7000	-.2530	-.1440	-.1010	-.0850
157.000								.2900							
162.000									-.2800						
165.000											-.4840	-.2150	-.1240	-.0800	-.0770
169.000									-.4420						
172.000							.5280								
180.000	1.0470	.3310	-.3380	-.1610	.0110	.4150			-.0490		-.6390	-.2550	-.2570	-.2520	-.1810

X/LB	.5873	.6626	.7380	.7889	.8283	.8848	.9282	.9639	1.0015	1.0382
PHI										
.000	.0810							-.1090		-.0380
40.000	.1480	.1410		-.2250	-.3830	-.2570	-.1140			-.1160
70.000		-.2340	-.1840	-.0880	.0640	.0130	.0180	-.0540		
90.000		-.1150	-.0900	.0040	.0440	-.0430	-.0400	-.0760		
105.000				.1050	.0080	- 0420	-.0650	-.1060		
110.000									-.2130	
120.000		-.1410	.0520	.3180	-.1020	-.1190	-.0700	-.0850	-.1530	
135.000				.1970	-.1000	-.1990	-.1230	-.1700		
150.000		-.0780	.0460	.0500	-.1870	-.1410	-.1040	-.2010		
165.000		-.0620		.0790	.0700	-.0650	-.1070	-.2860		
180.000		-.1230	-.0370	-.0310						

MACH (1) = .598 BETAT (3) = -4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0480	.5702	.0000	-.6100	-.1220	-.0740			-.0830		-.1000	-.0900	-.0800	-.0280	.0280
20.000			-.1430	-.5180	-.1310	-.0750			-.0730		-.1000				
40.000			.0590	-.3290	-.0590	-.0640			-.0720		-.1140	-.0980	-.0220	.0230	.0880
55.000			.1250	-.2200	.0310	.0420			.0110		-.0600				
70.000			.1130	-.1940	.0060	.0540			- 0010		-.1150	-.4010	- 1260	- 0600	- 0240
90.000		.7070	.0380	-.2050	.0490	.0610			.0000		-.1510	- 4310	- 1400	-.0000	- 0820
120.000			-.0600	-.1420	.0790	.1310			.0340		-.2410	-.33	- 12	-.0700	- 0870

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBWB09)

MACH (1) = .998 BETAT (3) = -4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4780					
150.000			-.1300	-.1240	.0810	.3370			-.1720		-.6610	-.2400	-.1330	-.0890	-.0720
157.000								.2590							
162.000									-.3170						
165.000											-.4960	-.2130	-.1190	-.0870	-.0690
169.000									-.4370						
172.000							.5470								
180.000	1.0880	.3380	-.3060	-.1430	.0390	.4470			-.0210		-.6210	-.2180	-.2090	-.1240	-.1310

X/LB	.5873	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0780							-.1040		-.0060
40.000	.1230	.1060		-.2110	-.3400	-.2130	-.1080			-.1300
70.000		-.2460	-.2020	-.1190	.0360	-.0160	-.0070	-.0480		
90.000		-.1890	-.1060	-.0330	-.0020	-.0700	-.0600	-.0920		
105.000				.0550	-.0360	-.0690	-.0860	-.1200		
110.000									-.2210	
120.000		-.1280	.0550	.2480	-.1720	-.1490	-.0830	-.0940	-.1600	
135.000				.2630	-.0850	-.2030	-.1300	-.1720		
150.000		-.0680	.0990	.0920	-.1420	-.1720	-.1370	-.2170		
165.000		-.0550		.0960	.0750	-.1080	-.1530	-.2600		
180.000		-.0840	.0000	.0320						

MACH (1) = .998 BETAT (4) = -2.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0820	.5190	.0000	-.5880	-.1070	-.0530			-.0680		-.0770	-.0720	-.0420	-.0010	.0490
20.000			-.1780	-.5150	-.1080	-.0530			-.0650		-.0910				
40.000			-.0250	-.3680	-.0670	-.0490			-.0510		-.1180	-.1000	-.0290	.0140	.0740
55.000			.0220	-.3020	-.0180	.0030			-.0240		-.0930				
70.000			-.0050	-.2880	-.0480	.0050			-.0360		-.1470	-.4230	-.1410	-.0620	-.0640
90.000		.6210	-.0860	-.2890	.0100	.0220			-.0440		-.1870	-.4890	-.1430	-.0770	-.0900
120.000			-.1310	-.2000	.0460	.0920			-.0420		-.3500	-.3520	-.1460	-.0850	-.0760
142.000										-.5100					
150.000			-.1600	-.1500	.0690	.3100			-.2130		-.6140	-.2340	-.1240	-.0750	-.0540
157.000								.2100							
162.000									-.3700						
165.000											-.5100	-.2100	-.1110	-.0680	-.0590
169.000									-.4460						
172.000							.5470								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB09)

MACH (1) = .900 BETAT (4) = -2.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0692	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0820	.3500	-.2930	-.1320	.0990	.4660			-.0090		-.5960	-.1900	-.1580	-.0770	-.0830

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0920							-.0900		-.0290
40.000	.1040	.0650		-.2130	-.3090	-.1950	-.0950			-.1480
70.000		-.2490	-.2230	-.1510	-.0050	-.0420	-.0270	-.0620		
90.000		-.1880	-.1220	-.0670	-.0410	-.0880	-.0800	-.1020		
105.000				-.0140	-.0890	-.0900	-.1030	-.1290		
110.000									-.2250	
120.000		-.1100	.0510	.1480	-.2490	-.1770	-.1050	-.1080	-.1680	
135.000				.3050	-.0840	-.2150	-.1380	-.1730		
150.000		-.0550	.0720	.1250	-.0990	-.2020	-.1700	-.2260		
165.000		-.0510		.1190	.0740	-.1560	-.1940	-.2690		
180.000		-.0550	.0250	.0510						

MACH (1) = .996 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0692	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0870	.5780	.0000	-.5690	-.1010	-.0530			-.0600		-.0750	-.0700	-.0510	.0110	.0610
20.000			-.2130	-.5350	-.0980	-.0560			-.0580		-.0820				
40.000			-.1150	-.4310	-.0810	-.0490			-.0650		-.1230	-.1200	-.0960	.0060	.0600
55.000			-.0960	-.3950	-.0670	-.0320			-.0650		-.1220				
70.000			-.1430	-.3740	-.0970	-.0270			-.0740		-.1710	-.4430	-.1480	-.0740	-.0610
90.000		.5300	-.2110	-.3770	-.0470	-.0190			-.0910		-.2140	-.4990	-.1450	-.0750	-.0830
120.000			-.2290	-.2670	-.0030	.0460			-.1280		-.3600	-.3470	-.1350	-.0770	-.0640
142.000										-.5410					
150.000			-.2120	-.1760	.0480	.2740			-.2660		-.5960	-.2250	-.1160	-.0670	-.0510
157.000								.1450							
162.000									-.4360						
165.000											-.5190	-.1990	-.1120	-.0590	-.0570
169.000									-.4620						
172.000							.5370								
180.000	1.0870	.3670	-.2850	-.1210	.0640	.4740			-.0630		-.5890	-.1840	-.1400	-.0550	-.0510

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1030							-.0900		-.0580
40.000	.0870	.0270		-.1950	-.2700	-.1750	-.0860			-.1360

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (R3MB09)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2520	-.2360	-.1800	-.0340	-.0710	-.0430	-.0780		
90.000		-.1820	-.1320	-.1120	-.0900	-.1170	-.0970	-.1170		
105.000				-.0850	-.1300	-.1200	-.1220	-.1460		
110.000									-.2370	
120.000		-.1010	.0500	.0580	-.3180	-.2070	-.1200	-.1260	-.1780	
135.000				.3210	-.0840	-.2500	-.1590	-.1830		
150.000		-.0500	.0810	.1800	-.0550	-.2440	-.2030	-.2530		
165.000		-.0400		.1440	.0790	-.2050	-.2300	-.2750		
180.000		-.0380	.0400	.0490						

MACH (1) = .598 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0830	.5680	.0000	-.5970	-.1020	-.0550			-.0670		-.0840	-.0780	-.0420	.0000	.0490
20.000			-.2600	-.5500	-.1040	-.0640			-.0680		-.1000				
40.000			-.2240	-.4860	-.1100	-.0600			-.0760		-.1480	-.1350	-.0580	-.0140	.0420
55.000			-.2280	-.4850	-.1110	-.0680			-.0980		-.1590				
70.000			-.2720	-.4630	-.1430	-.0650			-.1150		-.2050	-.4600	-.1620	-.0770	-.0660
90.000		.4280	-.3370	-.4630	-.0940	-.0600			-.1310		-.2410	-.5010	-.1500	-.0760	-.0820
120.000			-.3250	-.3340	-.0470	-.0080			-.2050		-.3660	-.3380	-.1310	-.0670	-.0560
142.000										-.5980					
150.000			-.2590	-.2210	.0110	.2240			-.3190		-.5610	-.2220	-.1140	-.0610	-.0470
157.000								.0670							
162.000									-.5160						
165.000											-.5210	-.1950	-.1070	-.0580	-.0560
169.000									-.4900						
172.000							.5060								
180.000	1.0830	.3640	-.2890	-.1310	.0560	.4670			-.0160		-.6050	-.1900	-.1540	-.0740	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0950							-.0890		-.0470
40.000	.0570	-.0220		-.2080	-.2410	-.1690	-.0950			-.1480
70.000		-.2460	-.2470	-.2000	-.0710	-.1000	-.0640	-.0920		
90.000		-.1770	-.1400	-.1540	-.1340	-.1410	-.1160	-.1370		
105.000				-.1400	-.1830	-.1580	-.1440	-.1620		
110.000									-.2510	
120.000		-.0900	.0320	-.0550	-.4040	-.2420	-.1450	-.1420	-.1910	
135.000				.3700	-.1210	-.2920	-.1930	-.2030		
150.000		-.0450	.0750	.2150	-.0470	-.2910	-.2500	-.2700		

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB09)

MACH (1) = .598 BETAT (6) = 2.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0410		.1580	.0880	-.2770	-.2780	-.2600		
180.000		-.0560	.0240	.0510						

MACH (1) = .597 BETAT (7) = 4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0700	.5410	.0000	-.6160	-.1240	-.0770			-.0850		-.1050	-.0960	-.0870	-.0170	.0210
20.000			-.3230	-.5910	-.1250	-.0820			-.0860		-.1240				
40.000			-.3280	-.5540	-.1440	-.0860			-.1010		-.1820	-.1630	-.0880	-.0380	.0170
55.000			-.3540	-.5710	-.1570	-.1070			-.1310		-.1820				
70.000			-.4110	-.5600	-.1840	-.0980			-.1370		-.2250	-.4680	-.1670	-.0790	-.0650
90.000		.3140	-.4630	-.5480	-.1320	-.1010			-.1670		-.2630	-.9070	-.1500	-.0760	-.0780
120.000			-.4180	-.4110	-.0980	-.0680			-.2830		-.3680	-.3360	-.1260	-.0670	-.0510
142.000										-.7370					
150.000			-.3140	-.2730	-.0230	.1670			-.3750		-.5350	-.2250	-.1150	-.0670	-.0500
157.000								-.0220							
162.000									-.6040						
165.000											-.5300	-.1970	-.1140	-.0680	-.0670
169.000									-.5250						
172.000							.4680								
180.000	1.0700	.3520	-.2960	-.1470	.0420	.4420			-.0340		-.6170	-.2160	-.1780	-.1190	-.1340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0790							-.0940		-.0970
40.000	.0350	-.0540		-.1680	-.1870	-.1200	-.0740			-.1930
70.000		-.2460	-.2620	-.2270	-.1060	-.1190	-.0860	-.1080		
90.000		-.1790	-.1650	-.1930	-.1650	-.1700	-.1390	-.1430		
105.000				-.1940	-.2270	-.1900	-.1650	-.1800		
110.000									-.2680	
120.000		-.1050	.0080	-.1280	-.4990	-.2760	-.1710	-.1630	-.2070	
135.000				.3530	-.1550	-.3510	-.2350	-.2250		
150.000		-.0570	.0640	.2240	-.0310	-.3410	-.2890	-.2920		
165.000		-.0650		.1510	.0740	-.3600	-.3320	-.2790		
180.000		-.0870	-.0050	.0270						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (1) = .597 BETAT (8) = 6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0380	.5290	.0000	-.6230	-.1510	-.1100			-.1200		-.1390	-.1310	-.0910	-.0470	-.0110
20.000			-.3760	-.6260	-.1530	-.1130			-.1210		-.1470				
40.000			-.4190	-.6100	-.1830	-.1170			-.1430		-.2220	-.2020	-.1230	-.0660	.0040
55.000			-.4830	-.6530	-.2060	-.1420			-.1600		-.2020				
70.000			-.5500	-.6570	-.2320	-.1240			-.1710		-.2440	-.4730	-.1670	-.0810	-.0640
90.000		.1990	-.6080	-.6390	-.1790	-.1350			-.2060		-.2910	-.4960	-.1480	-.0720	-.0720
120.000			-.5280	-.4910	-.1520	-.1220			-.3720		-.3840	-.3320	-.1320	-.0630	-.0480
142.000										-.9130					
150.000			-.3880	-.3250	-.0800	.1000			-.4390		-.5330	-.2340	-.1300	-.0770	-.0620
157.000								-.1270							
162.000									-.6930						
165.000											-.5530	-.2080	-.1370	-.0960	-.0940
169.000									-.5600						
172.000							.4100								
180.000	1.0380	.3270	-.3220	-.1660	.0080	.4020			-.0600		-.6570	-.2480	-.2140	-.2250	-.1930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0540							-.1060		-.1110
40.000	.0160	-.0660		-.1580	-.1770	-.1430	-.0940			-.2450
70.000		-.2450	-.2730	-.2560	-.1370	-.1460	-.1090	-.1350		
90.000		-.1790	-.1750	-.2230	-.1920	-.1930	-.1620	-.1640		
105.000				-.2250	-.2670	-.2230	-.1870	-.1990		
110.000									-.2750	
120.000		-.1070	-.0040	-.1740	-.5680	-.3120	-.1950	-.1890	-.2220	
135.000				.3500	-.1950	-.4120	-.2740	-.2500		
150.000		-.0700	.0380	.2260	-.0480	-.3850	-.3220	-.3070		
165.000		-.1050		.1420	.0570	-.4620	-.3940	-.2950		
180.000		-.1330	-.0480	-.0290						

MACH (1) = .598 BETAT (9) = 8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.9910	.4810	.0000	-.6860	-.2000	-.1570			-.1600		-.1820	-.1780	-.1390	-.0770	-.0480
20.000			-.4630	-.6870	-.2000	-.1660			-.1680		-.1960				
40.000			-.5500	-.7030	-.2390	-.1680			-.1940		-.2790	-.2510	-.1640	-.1020	-.0210
55.000			-.6250	-.7630	-.2530	-.1780			-.1960		-.2320				
70.000			-.7010	-.7870	-.2740	-.1620			-.2080		-.2640	-.4790	-.1740	-.0870	-.0620
90.000		.0670	-.7470	-.7630	-.2220	-.1780			-.2540		-.3070	-.4660	-.1470	-.0740	-.071
120.000			-.6400	-.5910	-.2190	-.1910			-.4670		-.3900	-.3170	-.1340	-.0690	-.053

AMES 11-7D7 IA9 OBA + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (1) = .598 BETAT (9) = 8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1170					
150.000			-.4620	-.3960	-.1520	.0060			-.5170		-.5200	-.2540	-.1510	-.0910	-.0760
157.000								-.2520							
162.000									-.8140						
165.000											-.6090	-.2310	-.1700	-.1470	-.1430
169.000									-.6150						
172.000							.3290								
180.000	.9910	.3000	-.3560	-.2070	-.0430	.3410			-.1200		-.7340	-.3010	-.2950	-.3900	-.2450

X/LB	.5873	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0430							-.1240		-.1480
40.000	-.0020	-.0610		-.1850	-.2010	-.1490	-.1530			-.2250
70.000		-.2640	-.3010	-.2900	-.1640	-.1830	-.1510	-.1770		
90.000		-.1940	-.1990	-.2540	-.2260	-.2330	-.2000	-.2000		
105.000				-.2610	-.3130	-.2610	-.2230	-.2300		
110.000									-.2950	
120.000		-.1230	-.0320	-.2500	-.6780	-.3720	-.2390	-.2270	-.2520	
135.000				.3760	-.2020	-.4830	-.3210	-.2910		
150.000		-.1100	-.0250	.1020	-.2060	-.5100	-.4150	-.3600		
165.000		-.1440		.0690	-.0130	-.5910	-.4600	-.3260		
180.000		-.1910	-.1110	-.0880						

MACH (2) = .899 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1570	.7250	.0000	-.8380	-.2830	-.1150			-.1410		-.2150	-.2850	-.1870	-.0960	.0140
20.000			.1340	-.6140	-.3120	-.1320			-.1210		-.1890				
40.000			.3390	-.3260	-.1170	-.1620			-.1320		-.1900	-.2540	-.0890	.0350	.1520
55.000			.4170	-.1660	.0710	.1330			.1180		.0160				
70.000			.4050	-.1280	.0700	.1670			.1290		-.0200	-.5990	-.1460	.0150	.1320
90.000		.9480	.2910	-.1690	.1310	.2020			.1520		-.0580	-.7420	-.1800	-.0230	-.0310
120.000			.1120	-.1660	.1380	.2980			.2760		-.2320	-.8610	-.2030	-.0880	-.0790
142.000										-.5160					
150.000			-.0440	-.2750	.0790	.4920			.1840		-.7220	-.7210	-.1540	-.0770	-.0460
157.000								.5220							
162.000									.0620						
165.000											-.5810	-.5810	-.1220	-.0470	-.0130
169.000									-.1650						
172.000							.6900								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM809)

MACH (2) = .899 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1570	.4540	-.3180	-.3910	-.0400	.5230			.1670		-1.1150	-.5170	-.4010	-.2550	-.1430

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1360							-.0950		-.0470
40.000	.2400	.3050		-.0150	-.2220	-.2910	-.1740			-.1250
70.000		-.2780	-.3970	-.0870	.1040	.0610	.0920	.0560		
90.000		-.2470	-.2460	.0360	.0540	.0150	.0431	.0330		
105.000				.1360	.0340	-.0120	.0250	.0030		
110.000									-.2200	
120.000		-.2380	.0080	.4030	-.1020	-.0830	.0230	.0090	-.1410	
135.000				.2460	-.0800	-.1470	-.0360	-.0880		
150.000		-.1360	.0630	.0600	-.1950	-.0550	.0080	-.1310		
165.000		-.1010		.1130	.0900	.0140	.0200	-.3100		
180.000		-.1530	-.0210	.0110						

MACH (2) = .907 BETAT (2) = -6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1650	.7690	.0000	-.8430	-.2900	-.0710			-.0960		-.1770	-.2510	-.1610	-.0440	.0490
20.000			.1110	-.6640	-.3270	-.0790			-.0810		-.1690				
40.000			.2770	-.4550	-.1760	-.0890			-.0910		-.1860	-.2520	-.1110	.0390	.1360
55.000			.3280	-.3220	.0170	.1120			.0800		-.0320				
70.000			.3030	-.2790	.0170	.1370			.0900		-.0720	-.6180	-.2375	.0100	.0180
90.000		.8930	.2010	-.3060	.0840	.1670			.1080		-.0990	-.7530	-.2790	-.0120	-.0330
120.000			.0390	-.2730	.1120	.2730			.2130		-.2660	-.8630	-.2060	-.0560	-.0600
142.000										-.6270					
150.000			-.0830	-.4020	.0900	.4920			.1750		-.7010	-.6940	-.1150	-.0410	-.0230
157.000								.5080							
162.000									.0510						
165.000											-.7270	-.5550	-.0880	-.0160	-.0080
169.000									-.1530						
172.000							.7210								
180.000	1.1650	.4520	-.3220	-.4330	.0090	.5660			.1980		-1.1310	-.4800	-.3260	-.1150	-.1170

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1500							-.1010		-.0280
40.000	.2220	.2710		-.0370	-.2280	-.2410	-.1420			-.1210

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (2) = .907 BETAT (2) = -6.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2710	-.3920	-.1320	.0550	.0430	.0050	.0580		
90.000		-.2280	-.2500	-.0150	-.0140	-.0090	.0370	.0370		
105.000				.0750	-.0630	-.0450	.0030	.0000		
110.000									-.2160	
120.000		-.1950	.0060	.3480	-.2280	-.1060	.0040	-.0020	-.1480	
135.000				.2990	-.0660	-.1500	-.0470	-.0830		
150.000		-.1020	.0660	.1050	-.1590	-.0910	-.0320	-.1490		
165.000		-.0800		.1360	.0880	-.0340	-.0340	-.3010		
180.000		-.1120	-.0040	.0510						

MACH (2) = .901 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2000	.7610	.0000	-.8630	-.4770	-.0470			-.0800		-.1590	-.2110	-.1190	-.0150	.0770
20.000			.0750	-.7140	-.3840	-.0600			-.0730		-.1560				
40.000			.2070	-.5530	-.2100	-.0680			-.0840		-.1760	-.2540	-.0970	.0350	.1280
55.000			.2390	-.4840	-.0640	.0680			.0310		-.0790				
70.000			.1980	-.4910	-.0570	.0920			.0390		-.1220	-.6510	-.2200	-.0020	.0090
90.000		.8210	.0930	-.5190	.0280	.1280			.0550		-.1670	-.7790	-.2120	-.0150	-.0320
120.000			-.0380	-.4320	.0730	.2390			.1310		-.3720	-.8860	-.2500	-.0340	-.0340
142.000										-.7360					
150.000			-.1290	-.4490	.0860	.4800			.1500		-.7710	-.6950	-.1430	-.0240	-.0190
157.000								.4810							
162.000									.0180						
165.000											-.9060	-.4980	-.1290	-.0030	-.0110
169.000									-.1360						
172.000							.7310								
180.000	1.2000	.4680	-.3230	-.4260	.0450	.5950			.2090		-1.2270	-.4430	-.2950	-.0540	-.0710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1530							-.0910		-.0290
40.000	.1960	.2230		-.0780	-.2550	-.2420	-.1360			-.1250
70.000		-.2770	-.3630	-.2030	-.0270	-.0090	.0560	.0330		
90.000		-.2290	-.2140	-.0730	-.1090	-.0590	.0060	.0100		
105.000				.0080	-.1810	-.0910	-.0210	-.0280		
110.000									-.2360	
120.000		-.1740	.0250	.2720	-.3240	-.1450	-.0210	-.0290	-.1720	
135.000				.3330	-.0760	-.1740	-.0620	-.1030		
150.000		-.0950	.0750	.1350	-.1210	-.1520	-.0750	-.1840		

AMES 11-7D7 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (2) = .901 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0750		.1440	.0870	-.1170	-.0970	-.3100		
180.000		-.0830	.0290	.0690						

MACH (2) = .899 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2080	.7790	.0000	-.8820	-.5360	-.0290			-.0620		-.1400	-.1800	-.1020	.0120	.0980
20.000			.0460	-.7450	-.5580	-.0380			-.0590		-.1530				
40.000			.1430	-.6140	-.3770	-.0400			-.0670		-.1800	-.2480	-.0980	.0330	.1150
55.000			.1550	-.5790	-.0630	.0430			-.0020		-.1270				
70.000			.1080	-.6040	-.0590	.0640			.0000		-.1810	-.6780	-.1950	-.0060	.0020
90.000		.7540	.0050	-.6280	.0200	.0930			.0080		-.2250	-.7970	-.2290	-.0070	-.0290
120.000			-.1100	-.5380	.0570	.2060			.0520		-.4510	-.9030	-.2170	-.0080	-.0200
142.000										-.8710					
150.000			-.1620	-.4910	.0890	.4570			.1180		-.8310	-.6930	-.1020	.0040	-.0030
157.000								.4380							
162.000									-.0220						
165.000											-.9910	-.5230	-.1090	.0170	-.0070
169.000									-.1310						
172.000							.7340								
180.000	1.2080	.4740	-.3260	-.4390	.0740	.6150			.2170		-1.2630	-.4540	-.2350	.0000	-.0160

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1660							-.0730		-.0520
40.000	.1740	.1750		-.1030	-.2630	-.1990	-.0950			-.1620
70.000		-.2700	-.3210	-.2330	-.1030	-.0470	.0370	.0180		
90.000		-.2090	-.1830	-.1110	-.2040	-.0900	-.0100	-.0070		
105.000				-.0380	-.2720	-.1000	-.0370	-.0420		
110.000									-.2340	
120.000		-.1390	.0380	.1910	-.3880	-.1340	-.0400	-.0470	-.1720	
135.000				.3490	-.0790	-.1660	-.0870	-.1200		
150.000		-.0710	.0800	.1800	-.0760	-.2060	-.1270	-.2130		
165.000		-.0590		.1630	.0770	-.1760	-.1540	-.2950		
180.000		-.0570	.0360	.0820						

AMES 11-7D7 IA9 OBA (S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH 2) = .903 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2080	.7680	.0000	-.8820	-.4960	-.0240			-.0550		-.1420	-.1780	-.1030	.0160	.0960
20.000			-.0160	-.7990	-.6180	-.0290			-.0540		-.1660				
40.000			.0130	-.7190	-.5570	-.0180			-.0580		-.2160	-.2600	-.1150	.0100	.0870
55.000			-.0110	-.7360	-.5320	-.0070			-.0630		-.2280				
70.000			-.0760	-.7850	-.4470	.0090			-.0670		-.3130	-.7430	-.1670	-.0210	-.0030
90.000		.6000	-.1710	-.8020	-.0720	.0270			-.0720		-.3750	-.8220	-.2320	-.0110	-.0150
120.000			-.2410	-.7410	-.0190	.1190			-.0970		-.6060	-.7920	-.1800	.0030	.0020
142.000										-1.1460					
150.000			-.2440	-.5880	.0310	.3820			.0390		-.6190	-.5930	-.3060	.0330	.0100
157.000								.3070							
162.000									-.1280						
165.000											-.6920	-.6220	-.2960	.0430	.0130
169.000									-.1350						
172.000							.6950								
180.000	1.2080	.4810	-.3260	-.4320	.0770	.6100			.2130		-1.2520	-.4540	-.2620	-.0070	-.0190

X/LB	.5873	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1630							-.0780		-.0740
40.000	.1270	.0580		-.1510	-.2770	-.1940	-.1020			-.1610
70.000		-.2320	-.2570	-.2840	-.2270	-.2230	-.0360	-.0390		
90.000		-.1630	-.1400	-.1980	-.3260	-.3660	-.0750	-.0720		
105.000				-.1530	-.3780	-.4390	-.0980	-.1050		
110.000									-.2580	
120.000		-.0880	.0250	-.0450	-.5010	-.5410	-.0990	-.1100	-.1970	
135.000				.3000	-.0920	-.5870	-.1800	-.1890		
150.000		-.0410	.0690	.2370	.0090	-.4370	-.2500	-.2710		
165.000		-.0420		.1490	.1080	-.3590	-.3090	-.2950		
180.000		-.0650	.0340	.0810						

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1980	.7660	.0000	-.8890	-.3440	-.0540			-.0760		-.1590	-.2130	-.1790	-.0040	.0780
20.000			-.0060	-.8390	-.6240	-.0490			-.0730		-.1840				
40.000			-.0580	-.7790	-.6040	-.0330			-.0760		-.2490	-.2940	-.1240	-.0180	.0730
55.000			-.1020	-.8170	-.6310	-.0320			-.0910		-.2660				
70.000			-.1710	-.8650	-.6240	-.0160			-.0980		-.3650	-.3750	-.1540	-.0300	.0550
90.000		.5200	-.2530	-.8770	-.2650	-.0060			-.1160		-.4450	-.4270	-.2360	-.0160	-.0100
120.000			-.3060	-.8030	-.0920	.0700			-.1800		-.6290	-.4230	-.2570	-.0230	.0740

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
142.000										-1.1940					
150.000			-.2770	-.6030	-.0310	.3300			-.0140		-.6340	-.6100	-.3580	.0190	.0190
157.000								.2240							
162.000									-.1910						
165.000											-.6630	-.6040	-.3410	.0140	-.0030
169.000									-.1510						
172.000							.6550								
180.000	1.1980	.4810	-.3250	-.3960	.0400	.5870			.1970		-1.2070	-.4460	-.2750	-.0490	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1530							-.0900		-.0170
40.000	.0980	-.0050		-.1410	-.2270	-.1530	-.1040			-.1980
70.000		-.2140	-.2520	-.2980	-.2560	-.3710	-.0860	-.0810		
90.000		-.1490	-.1390	-.2200	-.3480	-.4510	-.1230	-.1030		
105.000				-.1630	-.4060	-.5020	-.1390	-.1250		
110.000									-.2870	
120.000		-.0840	.0130	-.1070	-.5640	-.5870	-.1430	-.1320	-.2200	
139.000				.3360	-.0700	-.6340	-.2500	-.1960		
150.000		-.0480	.0580	.2100	.0040	-.4540	-.4340	-.2830		
165.000		-.0570		.1560	.0990	-.4160	-.4230	-.3100		
180.000		-.0850	.0190	.0660						

MACH (2) = .900 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
.000	1.1760	.7530	.0000	-.8700	-.2310	-.0850			-.0970		-.1880	-.2470	-.1430	-.0240	.0460
20.000			-.0870	-.8450	-.3140	-.0750			-.0980		-.2180				
40.000			-.1230	-.8240	-.6480	-.0590			-.1060		-.2900	-.3290	-.1460	-.0410	.0530
55.000			-.1880	-.8760	-.7030	-.0550			-.1150		-.3000				
70.000			-.2640	-.9420	-.6990	-.0370			-.1210		-.4000	-.7700	-.1560	-.0390	.0090
90.000		.4300	-.3400	-.9530	-.4990	-.0380			-.1500		-.4780	-.8020	-.1950	-.0160	-.0060
120.000			-.3750	-.8640	-.1930	.0110			-.2530		-.6140	-.5930	-.3090	-.0060	.0070
142.000										-1.1290					
150.000			-.3250	-.6350	-.0970	.2610			-.0770		-.6850	-.6050	-.3810	-.0390	-.0030
157.000								.1300							
162.000									-.2590						
165.000											-.6550	-.5840	-.3640	-.0280	-.0040
169.000									-.1700						
172.000							.5940								

AMES 11-707 I49 OPA + 53 + T2 ORBITER FUSELAGE (RBM809)

MACH (2) = .900 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1760	.4610	-.3330	-.3710	-.0010	.5490			.1710		-1.1460	-.4810	-.2940	-.0940	-.1230

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1440							-.1040		-.0160
40.000	.0850	-.0280		-.1350	-.1880	-.1860	-.1140			-.2720
70.000		-.1980	-.2460	-.2980	-.2660	-.4810	-.1350	-.1060		
90.000		-.1350	-.1430	-.2270	-.3190	-.5390	-.1770	-.1220		
105.000				-.1940	-.4260	-.5410	-.1920	-.1480		
110.000									-.2920	
120.000		-.0790	.0080	-.1100	-.5950	-.6100	-.2600	-.1450	-.2260	
135.000				.3740	-.0400	-.6850	-.5490	-.2040		
150.000		-.0810	.0280	.1470	-.0690	-.4930	-.5440	-.3610		
165.000		-.0890		.1350	.0720	-.4710	-.4950	-.3130		
180.000		-.1130	-.0090	.0430						

MACH (2) = .900 BETAT (8) = 8.240

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1490	.7110	.0000	-.6440	-.2780	-.1240			-.1370		-.2190	-.2790	-.1950	-.0640	.0110
20.000			-.1280	-.8660	-.3260	-.1080			-.1330		-.2560				
40.000			-.1990	-.8670	-.5290	-.0880			-.1390		-.3470	-.3800	-.2010	-.0830	.0270
55.000			-.2760	-.9530	-.7760	-.0750			-.1380		-.3070				
70.000			-.3720	-1.0160	-.8350	-.0560			-.1480		-.4040	-.7870	-.1780	-.0630	.0350
90.000		.3420	-.4330	-1.0240	-.7490	-.0710			-.1880		-.4860	-.8320	-.2140	-.0380	-.0010
120.000			-.4370	-.9100	-.3800	-.0580			-.3380		-.6080	-.5630	-.4230	-.0440	.0130
142.000										-.8340					
150.000			-.3670	-.6390	-.2270	.1750			-.1560		-.7220	-.6130	-.4500	-.0620	-.0510
157.000								.0300							
162.000									-.3160						
165.000											-.6640	-.5720	-.4130	-.0960	-.0780
169.000									-.1930						
172.000							.5200								
180.000	1.1490	.4530	-.3410	-.3400	-.0580	.4910			.1370		-1.1290	-.5710	-.3690	-.2290	-.1610

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1220							-.0970		-.1540
40.000	.0570	-.0390		-.1990	-.2110	-.1860	-.1740			-.2770

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM809)

MACH (2) = .900 BETAT (8) = 8.240

SECTION (1)ORBITER FUSELAGE DEPENCENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1970	-.2430	-.3050	-.2680	-.5360	-.2180	-.1600		
90.000		-.1400	-.1490	-.2340	-.3560	-.5430	-.2930	-.1640		
105.000				-.1840	-.4310	-.5510	-.3410	-.1880		
110.000									-.3060	
120.000		-.0660	-.0020	-.0730	-.5840	-.6200	-.5460	-.1960	-.2390	
135.000				.3500	-.0170	-.6630	-.5770	-.4150		
150.000		-.1220	-.0250	.0370	-.1880	-.5880	-.6660	-.5490		
165.000		-.1170		.0810	.0360	-.5340	-.5680	-.3500		
180.000		-.1590	-.0290	.0070						

MACH (3) = 1.103 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENCENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2180	.8490	.0000	-.4620	-.2420	-.2960			-.0870		.0160	-.0640	-.1680	-.2550	-.2670
20.000			.3620	-.2860	-.2350	-.2490			-.0580		.0300				
40.000			.5550	-.0680	-.0280	-.1460			-.0530		-.0730	-.0570	-.0780	-.0800	.0140
55.000			.6370	.0630	.1170	.1980			.2370		.1300				
70.000			.6140	.0630	.1160	.2630			.2720		.1230	-.3040	-.2160	-.1310	-.1180
90.000		1.0770	.5110	-.0220	.1680	.3150			.3090		.0780	-.3980	-.2620	-.1590	-.1810
120.000			.3300	-.1010	.1920	.4320			.4290		-.0850	-.4720	-.4070	-.2580	-.2600
142.000										-.2710					
150.000			.1820	-.2260	.1400	.6390			.4110		-.4250	-.3990	-.4000	-.2860	-.1980
157.000								.7020							
162.000									.3080						
165.000											-.4710	-.3160	-.3710	-.2520	-.1560
169.000									.1040						
172.000							.8490								
180.000	1.2180	.6280	-.0510	-.2420	.0490	.6680			.3910		-.[illegible]	-.5180	-.6250	-.6620	-.3140

X/L	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2030							.0470		-.0700
40.000	.3170	.4560		.2150	.0720	-.4050	-.3110			-.0920
70.000		-.0340	-.2640	-.2680	.0720	-.0880	-.1510	.0620		
90.000		-.0060	-.2250	.0380	-.0820	-.0820	-.2210	.1040		
109.000				.0990	-.0340	-.1080	-.2530	-.0100		
110.000									-.1150	
120.000		-.0720	-.1560	.5470	.0020	-.1250	-.2260	-.0780	.0200	
135.000				.3410	.1010	-.3610	-.0720	-.0370		
150.000		-.0140	.1160	.1600	-.0110	-.1470	.0460	-.0360		

AMES 11-707 IA9 OZA + S3 + T9 ORBITER FUSELAGE (RBM009)

MACH (3) = 1.103 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0150		.2180	.2470	-.0160	.0660	-.2440		
180.000		-.0550	.0650	.1860						

MACH (3) = 1.100 BETAT (2) = -6.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2880	.8600	.0000	-.5270	-.2950	-.1920			.1070		.0200	-.0480	-.1370	-.2060	-.1950
20.000			.3040	-.3580	-.2780	-.2330			.1080		.0190				
40.000			.4900	-.1630	-.0790	-.2310			.0680		-.0130	-.0640	-.0840	-.0950	-.0090
55.000			.5510	-.0440	.0530	.1580			.2540		.1270				
70.000			.5280	-.0420	.0470	.2020			.2650		.0900	-.3300	-.2630	-.1540	-.1210
90.000		1.0330	.4260	-.1110	.1070	.2570			.2820		.0350	-.4210	-.3120	-.1800	-.1770
120.000			.2750	-.1740	.1950	.3970			.3620		-.1290	-.4930	-.4250	-.2480	-.1900
142.000										-.3500					
150.000			.1620	-.2630	.1590	.6310			.3960		-.4530	-.4270	-.3930	-.2810	-.1300
157.000								.6800							
162.000									.2890						
165.000											-.5870	-.3460	-.3680	-.2360	-.1140
169.000									.1180						
172.000							.8740								
180.000	1.2880	.6530	-.0440	-.2520	.0970	.7060			.4110		-.6410	-.5280	-.5650	-.4830	-.2270

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							.0330		-.0780
40.000	.2770	.4760		.1730	.0450	-.4220	-.2860			-.1010
70.000		-.0390	-.2640	-.2380	.0630	-.1110	-.2120	-.0900		
90.000		-.0080	-.2220	.0270	-.0860	-.1100	-.2540	-.2430		
105.000				.1190	-.0620	-.1350	-.2780	-.2590		
110.000									-.0790	
120.000		-.0440	-.0760	.4910	-.0460	-.2160	-.2380	-.1700	.0040	
135.000				.3900	.1210	-.3470	-.1010	-.0740		
150.000		.0040	.1400	.1840	.0350	-.1540	-.0090	-.0780		
165.000		.0350		.2310	.2710	-.0340	.0150	-.2760		
180.000		-.0050	.0990	.2020						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (3) = 1.103 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENCENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3380	.8120	.0000	-.6080	-.3350	-.2310			.1430		.0390	-.0340	-.0910	-.1680	.0140
20.000			.1940	-.4530	-.3390	-.2320			.1380		.0290				
40.000			.3990	-.2580	-.1470	-.2550			.1160		.0030	-.0520	-.0880	-.1020	-.0210
55.000			.4740	-.1510	-.0350	-.0940			.2470		.0970				
70.000			.4600	-.1550	-.0500	.0250			.2490		.0430	-.3580	-.2970	-.1810	-.1[illegible]
90.000		1.0030	.3700	-.1900	-.0100	.1560			.2530		-.0200	-.4420	-.3470	-.1940	-.1510
120.000			.2430	-.2230	.[illegible]	.3500			.2920		-.1890	-.5110	-.4400	-.2470	-.1410
142.000										-.5040					
150.000			.1540	-.2910	.0800	.6260			.3770		-.4900	-.4440	-.3850	-.2310	-.0990
157.000								.6600							
162.000									.2630						
165.000											-.7440	-.3790	-.3760	-.1970	-.0920
169.000									.1340						
172.000							.9020								
180.000	1.3080	.7020	-.0200	-.2400	.0190	.7480			.4270		-.8180	-.5490	-.4610	-.2460	-.1630

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							.0060		-.0940
40.000	.2420	.3520		.1280	.0150	-.4380	-.2500			-.0980
70.000		-.0400	-.2610	-.2190	.0370	-.1390	-.2420	-.2390		
90.000		-.0020	-.2120	.0080	-.1090	-.1410	-.2790	-.2670		
105.000				.1000	-.0920	-.1610	-.2990	-.2840		
110.000									-.3250	
120.000		-.0190	-.0250	.4380	-.0770	-.2460	-.2370	-.2070	-.2590	
135.000				.4340	.1340	-.3350	-.1310	-.1110		
150.000		.0120	1450	.2110	.0930	-.1780	-.0680	-.1290		
165.000		.0250		.2470	.2810	-.0610	-.0510	-.3130		
180.000		-.0040	.1330	.2350						

MACH (3) = 1.103 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.7900	.0090	-.6160	-.1440	-.2260			.1470		.0550	-.0190	-.0810	-.1310	.0520
20.000			.1080	-.5370	-.3250	-.2520			.1630		.0440				
40.000			.3060	-.3540	-.2150	-.2570			.1510		.0050	-.0520	-.0940	-.1260	.0740
55.000			.3730	-.2510	-.1190	-.1120			.2320		.0670				
70.000			.3690	-.2530	-.1450	.0090			.2240		.0060	-.3[illegible]	.3320	-.2280	-.1[illegible]
90.000		.9340	.2900	-.2720	-.1240	.1250			.2120		-.0[illegible]	-.4[illegible]	.3080	-.2330	-.1[illegible]
120.000			.1830	-.2720	-.0550	.3270			.2360		-.2360	-.5360	.4400	-.2450	-.1[illegible]

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RSMB09)

MACH (3) = 1.103 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6200					
150.000			.1250	-.3110	.0140	.6090			.3500		-.5330	-.4760	-.3890	-.1910	-.0790
157.000								.6180							
162.000									.2290						
165.000											-.8200	-.4160	-.3760	-.1810	-.0750
169.000									.1400						
172.000							.8980								
180.000	1.3210	.7060	-.0160	-.2330	-.0080	.7640			.4300		-.8210	-.6150	-.3450	-.2200	-.0900

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1850							.0020		-.0920
40.000	.2010	.2740		.0780	-.0320	-.4640	-.2170			-.1070
70.000		-.0450	-.2860	-.2190	.0010	-.1750	-.2770	-.2830		
90.000		.0020	-.2040	-.0160	-.1310	-.1760	-.3080	-.2970		
105.000				.0670	-.1290	-.1780	-.3210	-.3050		
110.000									-.3460	
120.000		.0050	.0430	.3580	-.1210	-.3180	-.2360	-.2300	-.2790	
135.000				.4690	.1330	-.3380	-.1640	-.1540		
150.000		.0230	.1660	.2420	.1370	-.1830	-.1370	-.1900		
165.000		.0260		.2610	.2650	-.0760	-.1070	-.3350		
180.000		.0140	.1300	.2450						

MACH (3) = 1.103 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3230	.7990	.0000	-.6200	-.1910	-.2950			.1450		.0580	-.0210	-.0720	-.1350	.0610
20.000			.0250	-.6020	-.1930	-.2280			.1320		.0390				
40.000			.1430	-.5010	-.2870	-.2090			.1360		-.0020	-.0780	-.1360	-.1830	.0470
55.000			.1830	-.4360	-.2910	-.1170			.1820		-.0010				
70.000			.1740	-.4360	-.3300	-.0230			.1670		-.0780	-.4370	-.4030	-.3080	-.0560
90.000		.7810	.1210	-.4240	-.3080	.0680			.1290		-.1620	-.5120	-.4570	-.2480	-.0690
120.000			.0630	-.3760	-.2020	.2470			.0610		-.3460	-.5930	-.4940	-.1780	-.0510
142.000										-.7250					
150.000			.0620	-.3440	-.0560	.5440			.2690		-.6270	-.5510	-.3360	-.1040	-.0550
157.000								.5020							
162.000									.1410						
165.000											-.8660	-.3770	-.2150	-.1930	-.0650
169.000									.1350						
172.000							.6620								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (3) = 1.103 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3230	.7100	-.0150	-.2310	.0090	.7620			.4230		-.8030	-.6380	-.3330	-.2130	-.0910
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1920							-.0070		-.0530					
40.000	.1410	.1040		-.0180	-.1150	-.2030	-.1600			-.1570					
70.000		-.0540	-.2300	-.0750	-.0050	-.1930	-.2900	-.2830							
90.000		-.0080	-.0920	-.0370	-.0990	-.2010	-.3030	-.3920							
105.000				-.0060	-.1140	-.2000	-.3070	-.3100							
110.000									-.3780						
120.000		.0090	.1170	.1330	-.1980	-.3370	-.2580	-.2740	-.3260						
135.000				.5840	.1840	-.3590	-.2700	-.2420							
150.000		.0310	.1960	.3790	.2560	-.2020	-.2730	-.2690							
165.000		.0340		.3670	.3210	-.1110	-.2040	-.3940							
180.000		.0190	.1330	.2400											

MACH (3) = 1.103 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3120	.8130	.0000	-.6030	-.3280	-.2030			.1400		.0320	-.0460	-.1020	-.1690	.0470
20.000			.0190	-.6050	-.3090	-.2390			.1400		.0190				
40.000			.0820	-.5450	-.3730	-.2180			.1350		-.0230	-.1050	-.1710	-.2320	.0
55.000			.0980	-.5110	-.3720	-.1160			.1460		-.0330				
70.000			.0790	-.5100	-.4130	-.0180			.1110		-.1150	-.4670	-.4370	-.3320	-.0610
90.000		.6970	.0390	-.4950	-.3910	.0610			-.0140		-.2150	-.5400	-.4900	-.2480	-.0630
120.000			.0030	-.4260	-.2730	.2120			-.0090		-.4050	-.6240	-.5060	-.1890	-.0500
142.000										-.7630					
150.000			.0200	-.3640	-.0781	.4980			.2210		-.6860	-.6110	-.3280	-.2130	-.0610
157.000								.4350							
162.000									.0890						
165.000											-.8790	-.6110	-.3010	-.2260	-.0870
169.000									.1240						
172.000							.8280								
180.000	1.3120	.6980	-.0240	-.2350	.0220	.7390			.4110		-.7990	-.5420	-.4430	-.2400	-.1690
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2090							-.0200		-.0560					
40.000	.1470	-.0190		-.0610	-.1300	-.1980	-.1760			-.1750					

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (3) = 1.103 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0830	-.1150	-.0480	-.0260	-.2270	-.3190	-.3200		
90.000		-.0300	.0030	-.0010	-.1030	-.2260	-.3360	-.3200		
105.000				.0110	-.1350	-.2270	-.3360	-.3310		
110.000									-.3920	
120.000		.0090	.1660	.1430	-.2180	-.3660	-.2850	-.3030	-.3570	
135.000				.6270	.1730	-.3920	-.3250	-.2890		
150.000		.0360	.2180	.4170	.2710	-.2070	-.3010	-.3070		
165.000		.0250		.3980	.3440	-.1440	-.2370	-.4240		
180.000		-.0040	.1320	.2340						

MACH (3) = 1.101 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2720	.8440	.0000	-.5530	-.2900	-.1090			.1120		.0130	-.0620	-.1440	-.1950	-.1620
20.000			.0420	-.5690	-.3110	-.1500			.1200		-.0020				
40.000			.0360	-.5570	-.4100	-.1620			.1100		-.0530	-.1480	-.2290	-.2900	.0520
55.000			.0260	-.5620	-.4530	-.0890			.1130		-.0600				
70.000			-.0220	-.5780	-.4910	-.0260			.0760		-.1510	-.5000	-.4740	-.3540	-.0350
90.000		.6030	-.0570	-.5690	-.4680	.0420			-.0280		-.2690	-.5670	-.5260	-.2520	-.0450
120.000			-.0710	-.4840	-.3330	.1650			-.0760		-.4940	-.6600	-.5010	-.2080	-.0550
142.000										-.6000					
150.000			-.0320	-.3940	-.0650	.4360			.1570		-.7630	-.6600	-.3460	-.2500	-.1000
157.000								.3520							
162.000									.0350						
165.000											-.8860	-.6540	-.3500	-.2860	-.1350
169.000									.1100						
172.000							.7660								
180.000	1.2720	.6310	-.0500	-.2470	.0730	.6960			.3890		-.7960	-.5330	-.5460	-.3970	-.2460

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							.0010		-.0720
40.000	.1370	-.0500		-.0960	-.1580	-.1800	-.1650			-.2440
70.000		-.0400	-.1150	-.0590	-.0370	-.2380	-.3330	-.3460		
90.000		.0160	-.0100	-.0080	-.1120	-.2380	-.3490	-.3370		
105.000				-.0020	-.1600	-.2380	-.3480	-.3560		
110.000									-.3990	
120.000		.0620	.1710	.1440	-.2580	-.3990	-.2990	-.3290	-.3820	
135.000				.6420	.1680	-.4260	-.3800	-.3260		
150.000		.0720	.1920	.4100	.1990	-.2160	-.3420	-.3550		

AMES 11-707 1A9 O2A + 33 + T9 ORBITER FUSELAGE (RBMB09)

MACH (3) = 1.101 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0440		.3930	.3180	-.2060	-.3000	-.4330		
180.000		-.0160	.0910	.1990						

MACH (3) = 1.104 BETAT (8) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2360	.8320	.0000	-.5110	-.2650	-.2730			-.0600		.0300	-.0830	-.1840	-.2230	-.2440
20.000			.0550	-.5580	-.2950	-.2600			.0630		-.0090				
40.000			-.0030	-.5740	-.4700	-.1950			.1110		-.0690	-.1930	-.2990	-.3530	.0010
55.000			-.0540	-.6220	-.5400	-.1220			.0880		-.0790				
70.000			-.1160	-.6360	-.5650	-.0390			.0140		-.1870	-.5250	-.5020	-.3560	.0030
90.000		.5200	-.1410	-.6230	-.5400	.0230			-.0850		-.3200	-.5920	-.5520	-.2620	-.0210
120.000			-.1370	-.5260	-.3510	.1150			-.1550		-.5820	-.7060	-.4520	-.2370	-.0690
142.000										-.8280					
150.000			-.0880	-.4070	-.0980	.3570			.0860		-.8240	-.6870	-.4080	-.2780	-.1360
157.000								.2720							
162.000									-.0070						
165.000											-.8890	-.6760	-.4790	-.3560	-.2090
169.000									.0940						
172.000							.6890								
180.000	*.2360	.6270	-.0670	-.2360	.0180	.6400			.3620		-.8230	-.5480	-.6450	-.6700	-.3430

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1920							.0190		-.0720
40.000	.1120	.0790		-.1920	-.1920	-.1950	-.1950			-.2620
75.000		-.0450	-.1230	-.0540	-.0340	-.2390	-.3160	-.3130		
90.000		.0080	-.0240	-.0100	-.1100	-.2440	-.3270	-.3160		
105.000				.0000	-.1620	-.2670	-.3270	-.3380		
110.000									-.4050	
120.000		.0010	.1530	.1310	-.2800	-.4270	-.2980	-.3260	-.3880	
135.000				.6480	.2080	-.3950	-.3710	-.3300		
150.000		.0390	.1310	.2820	.0050	-.2880	-.4170	-.4430		
165.000		.0700		.3030	.2560	-.2340	-.3420	-.4500		
180.000		-.0610	.0510	.1800						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.246 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3300	.9740	.0000	-.2860	-.0990	-.2180			-.1640		-.1480	-.1180	.0070	-.0930	-.1920
20.000			.4990	-.1240	-.0940	-.1690			-.1550		-.0850				
40.000			.7180	.1140	.1250	-.1030			-.1360		-.0700	.0000	-.0750	-.0420	.0210
55.000			.7930	.2500	.2590	.0590			.2130		.1630				
70.000			.7750	.2450	.2400	.0680			.2980		.1350	-.1910	-.1640	-.0610	-.0330
90.000		1.1930	.6580	.1500	.2560	.1120			.3650		.0700	-.2560	-.2180	-.1110	-.0900
120.000			.4260	.0390	.2290	.3630			.5040		-.0530	-.3240	-.3120	-.1830	-.1630
142.000										-.1490					
150.000			.2780	-.0960	.2050	.6640			.4990		-.3210	-.3220	-.2830	-.2150	-.1680
157.000								.7720							
162.000									.4080						
165.000											-.3700	-.2320	-.2600	-.1910	-.1310
169.000									.2130						
172.000							.9200								
180.000	1.3300	.6710	.0550	-.1190	.1320	.6720			.4650		-.6450	-.4180	-.4220	-.4990	-.3580

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2480							.0800		-.0650
40.000	.1490	.4940		.2910	.1790	-.2270	-.4730			.0630
70.000		-.0510	-.1950	-.2800	-.0520	-.0580	-.1220	-.1430		
90.000		-.0600	-.1580	.0300	-.0750	-.0410	-.1510	-.1780		
105.000				.1420	.0670	-.1020	-.1710	-.2000		
110.000									-.2240	
120.000		-.1330	-.1580	.6040	.1230	-.1520	-.1950	-.1640	-.1170	
135.000				.2920	.1450	-.3020	-.1500	.0080		
150.000		-.0870	.0680	.1250	.0310	-.1240	.0540	.0370		
165.000		-.0690		.1780	.2700	.0340	.0950	-.1550		
180.000		-.1510	.0280	.1770						

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3650	.9960	.0000	-.3380	-.1360	-.2000			-.1250		-.1520	-.0610	.0200	-.1010	-.1920
20.000			.4500	-.1850	-.1160	-.2420			-.0950		-.0590				
40.000			.6520	.0260	.0790	-.2300			-.1480		-.0190	-.0060	-.0700	.0020	-.0310
55.000			.7130	.1370	.1840	-.0330			.1360		.0960				
70.000			.6830	.1370	.1580	.0240			.2400		.0790	-.2270	-.1940	-.1250	-.0870
90.000		1.1260	.5580	.0480	.1760	.0720			.2810		.0020	-.2990	-.2470	-.1550	-.1260
120.000			.3570	-.0320	.1700	.3490			.3970		-.1070	-.3850	-.3170	-.2180	-.1770

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.248 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.2590					
150.000			.2430	-.1450	.1590	.6520			.4760		-.3580	-.3910	-.3120	-.2370	-.1520
157.000								.7460							
162.000									.3830						
165.000											-.4980	-.2950	-.3050	-.2140	-.1260
169.000									.2220						
172.000							.9280								
180.000	1.3650	.6450	.0480	-.1360	.1180	.7110			.4750		-.6540	-.4260	-.4480	-.4340	-.2860

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1630							.0480		-.0710
40.000	.0060	.4430		.1890	.1540	-.2530	-.3340			.0350
70.000		-.1150	-.2040	-.2860	-.0780	-.0850	-.1520	-.1870		
90.000		-.1140	-.1670	.0200	-.0970	-.0790	-.1860	-.2090		
105.000				.1250	.0200	-.1290	-.2030	-.2320		
110.000									-.2350	
120.000		-.1580	-.1270	.5440	.0760	-.1970	-.2250	-.1630	-.1480	
135.000				.3240	.1540	-.2950	-.1310	- 0240		
150.000		-.0980	.0630	.1130	.0640	-.1230	.0270	-.0040		
165 000		-.0810		.1700	.2940	.0210	.0620	-.1890		
180.000		-.1360	.0050	.1530						

MACH (4) = 1.249 BETAT (3) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3890	.9780	.0000	-.3830	-.2000	-.0340			-.1770		-.2160	.2050	.0780	-.0730	-.1460
20.000			.3910	-.2380	-.1760	-.0830			-.0070		-.1150				
40.000			.5790	-.0480	.0210	-.2000			.0020		.0510	-.0010	.0530	-.0150	-.0270
55.000			.6330	.0420	.1100	-.0390			-.0710		.0820				
70.000			.6110	.0310	.0780	.0170			.0770		.0850	-.2130	-.2100	-.1150	-.0900
90.000		1.0960	.5000	-.0250	.0870	.0690			.1920		-.0120	-.2980	-.2540	-.1470	-.1200
120.000			.3340	-.0760	.1060	.3650			.3520		-.1880	-.3740	-.2980	-.1880	-.1351
142.000										-.3650					
150.000			.2460	-.1520	.1270	.6730			.4730		-.3630	-.4150	-.3030	-.2130	-.1150
157.000								.7440							
162.000									.3740						
165.000											-.5610	-.3230	-.2860	-.1920	-.0941
169.000									.2510						
172.000							.9670								

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.249 BETAT (3) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3890	.7220	.0770	-.1160	.0630	.7640			.5020		-.5920	-.4320	-.3550	-.2570	-.2040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							.0410		-.0740
40.000	-.0045	.4050		.0530	.1650	-.2390	-.2740			.0320
70.000		-.1340	-.1770	-.2410	-.0570	-.0750	-.1440	-.1880		
90.000		-.1220	-.1310	.0400	-.0800	-.0740	-.1800	-.2020		
105.000				.1350	.0100	-.1310	-.1960	-.2210		
110.000									-.2270	
120.000		-.1100	-.0570	.4920	.0570	-.2030	-.2070	-.1390	-.1580	
135.000				.4030	.1860	-.2510	-.1020	-.0430		
150.000		-.0580	.1160	.1[illegible]	.1200	-.0970	.0023	-.0420		
165.000		-.0510		.20[illegible]	.2970	.0330	.0340	-.2080		
180.000		-.0780	.0850	.2260						

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3970	.9540	.0000	-.3550	-.1960	-.0670			-.1950		-.1980	.1800	.0880	-.0360	-.1130
20.000			.2710	-.3520	-.2070	-.0860			-.1800		-.1660				
40.000			.4515	-.1740	-.0890	-.1020			-.1770		-.0440	.0640	.0240	-.0370	-.0540
55.000			.5210	-.0780	.0020	-.0200			-.0380		.0230				
70.000			.5030	-.0780	-.0250	.0190			.0840		.0010	-.2640	-.2350	-.1510	-.1170
90.000		1.0230	.4180	-.1020	-.0150	.0700			.1800		-.1280	-.3630	-.3050	-.1670	-.1250
120.000			.2930	-.1270	.0220	.3730			.3010		-.2300	-.4400	-.3330	-.1880	-.1210
142.000										-.4390					
150.000			.2290	-.1730	.0720	.6760			.4570		-.3910	-.4480	-.3370	-.2030	-.0820
157.000								.7270							
162.000									.3450						
165.000											-.6160	-.3550	-.3440	-.2000	-.0670
169.000									.2550						
172.000							.9870								
180.000	1.3970	.7460	.0890	-.1150	.0450	.8080			.5080		-.5940	-.4090	-.3150	-.2510	-.0720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1800							.0320		-.0820
40.000	.0460	.3230		-.0150	.0740	-.2740	-.2570			-.0050

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1310	-.1740	-.2120	-.0710	-.0970	-.1750	-.2230		
90.000		-.1080	-.1260	.0240	-.0940	-.1020	-.2070	-.2200		
105.000				.1080	-.0240	-.1620	-.2190	-.2330		
110.000									-.2470	
120.000		-.0860	.0100	.4020	.0160	-.2450	-.2140	-.1460	-.1920	
135.000				.4490	.2070	-.2370	-.1140	-.0860		
150.000		-.0510	.1400	.2240	.1750	-.0860	-.0460	-.1030		
165.000		-.0440		.2440	.2860	.0320	-.0140	-.2460		
180.000		-.0550	.0780	.2440						

MACH (4) = 1.249 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3710	.9760	.0000	-.4340	-.2470	-.0590			-.1930		-.2120	.1930	.0800	-.0570	-.1180
20.000			.2050	-.4070	-.2550	-.0810			-.1950		-.1910				
40.000			.3000	-.3190	-.2300	-.0950			-.1850		-.0910	.0510	-.0040	-.0970	-.1110
55.000			.3280	-.2590	-.2030	-.0390			-.0450		-.0850				
70.000			.3130	-.2630	-.2140	.0320			.0560		-.1570	-.3370	-.2850	-.2020	-.1130
90.000		.8750	.2510	-.2690	-.1900	.1720			.1340		-.2090	-.4690	-.3490	-.1980	-.1080
120.000			.1770	-.2250	-.1140	.3610			.2060		-.2990	-.5070	-.4420	-.1600	-.0720
142.000										-.5090					
150.000			.1560	-.2110	-.0080	.6270			.3830		-.4440	-.4640	-.3670	-.2100	-.0520
157.000								.6160							
162.000									.2580						
165.000											-.6470	-.4210	-.3190	-.2420	-.0540
169.000									.2490						
172.000							.9380								
180.000	1.3710	.7460	.0840	-.1190	.0510	.8030			.4960		-.5870	-.5020	-.3170	-.2530	-.0760

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1890							.0280		-.0770
40.000	.1470	.1210		.0120	-.0330	-.3310	-.1660			-.1500
70.000		-.0980	-.1640	-.1490	-.0630	-.1340	-.2100	-.2450		
90.000		-.0560	-.0930	-.0080	-.1210	-.1460	-.2300	-.2310		
105.000				.0390	-.0850	-.1800	-.2320	-.2440		
110.000									-.2780	
120.000		-.0420	.0770	.2060	-.0660	-.3040	-.2170	-.1900	-.2490	
135.000				.5440	.2430	-.2380	-.1930	-.1850		
150.000		-.0350	.1530	.3190	.2940	-.0840	-.1490	-.1810		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.249 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
65.000		-.0370		.3320	.3420	.0150	-.0870	-.3110		
180.000		-.0650	.0770	.2350						

MACH (4) = 1.249 BETAT (6) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3730	.9900	.0000	-.3930	-.2460	-.0190			-.1770		-.1600	.1780	.0500	-.0710	-.1570
20.000			.2090	-.3960	-.3010	-.0560			-.2080		-.2160				
40.000			.2520	-.3400	-.2610	-.0980			-.1930		-.0960	.0300	-.0340	-.1280	-.1490
55.000			.2540	-.3140	-.2650	-.0340			-.0520		-.1370				
70.000			.2200	-.3160	-.2870	.0430			.0450		-.1980	-.3780	-.3170	-.2260	-.1000
90.000		.7970	.1680	-.3210	-.2580	.1810			.1130		-.2410	-.5080	-.3780	-.1960	-.0910
120.000			.1140	-.2730	-.1690	.3290			.1480		-.3270	-.5320	-.4810	-.1550	-.0640
142.000										-.5410					
150.000			.1130	-.2320	-.0300	.5700			.3320		-.4980	-.4740	-.3450	-.2300	-.0550
157.000								.5360							
162.000									.2070						
165.000											-.6570	-.4660	-.2960	-.2720	-.0700
169.000									.2390						
172.000							.8910								
180.000	1.3730	.7260	.0580	-.1220	.0580	.7690			.4800		-.5870	-.4630	-.3490	-.2640	-.1770

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2120							.0270		-.0660
40.000	.1690	.0560		-.0570	-.0360	-.2240	-.1720			-.1600
70.000		-.0750	-.1560	-.1350	-.0620	-.1510	-.2210	-.2170		
90.000		-.0380	-.0730	-.0210	-.1270	-.1550	-.2400	-.1900		
105.000				.0310	-.1080	-.1800	-.2390	-.2140		
110.000									-.2780	
120.000		-.0260	.1090	.2110	-.1070	-.3350	-.2300	-.1770	-.2480	
135.000				.5450	.2430	-.2710	-.2360	-.1960		
150.000		-.0350	.1430	.3510	.3170	-.0920	-.1770	-.2000		
165.000		-.0500		.3520	.3620	-.0120	-.1130	-.3210		
180.000		-.0850	.0800	.2080						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.249 BETAT (7) = 6.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	.9960	.0000	-.3480	-.1330	-.1730			-.1410		-.1130	-.0300	.0500	-.0870	-.1740
20.000			.2370	-.3550	-.2440	-.1340			-.1760		-.1990				
40.000			.2290	-.3420	-.2790	-.1210			-.1890		-.1060	.0200	-.0890	-.1680	-.1810
55.000			.1940	-.3560	-.3110	-.0710			-.0500		-.1700				
70.000			.1360	-.3780	-.3570	.0190			.0400		-.2150	-.4300	-.3430	-.2510	-.0900
90.000		.7140	.0830	-.3790	-.3240	.1570			.0850		-.2560	-.5240	-.4180	-.1840	-.0850
120.000			.0330	-.3200	-.2150	.2860			.0660		-.3520	-.5510	-.4890	-.1610	-.0660
142.000										-.5720					
150.000			.0580	-.2470	-.0560	.4970			.2730		-.5630	-.4900	-.3220	-.2820	-.0640
157.000								.4540							
162.000									.1580						
165.000											-.6590	-.5050	-.2830	-.3150	-.1280
169.000									.2300						
172.000							.8210								
180.000	1.3630	.6660	.0470	-.1190	.0870	.7100			.4620		-.5910	-.4140	-.4020	-.3670	-.2900

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							.0470		-.0640
40.000	.1480	-.0020		-.0450	-.0980	-.1790	-.1520			-.1810
70.000		-.0670	-.0960	-.0830	-.0170	-.1350	-.2110	-.2500		
90.000		-.0250	-.0090	.0250	-.0850	-.1330	-.2330	-.2400		
105.000				.0530	-.0840	-.1500	-.2330	-.2460		
110.000									-.2960	
120.000		-.0150	.1570	.1900	-.1200	-.3330	-.2150	-.2190	-.2760	
135.000				.6050	.2750	-.2770	-.2480	-.2450		
150.000		-.0380	.1900	.3840	.2750	-.0650	-.1830	-.2250		
165.000		-.0710		.4010	.3710	-.0330	-.1430	-.3460		
180.000		-.1450	.0100	.1660						

MACH (4) = 1.246 BETAT (8) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3270	.9570	.0000	-.3300	-.1040	-.2090			-.1870		-.1600	-.1000	.0400	-.0850	-.1920
20.000			.1930	-.3640	-.1310	-.2210			-.2130		-.2160				
40.000			.1480	-.3830	-.3130	-.2230			-.1870		-.1510	-.0650	-.1380	-.2120	-.2150
55.000			.1040	-.4170	-.3710	-.1110			-.0550		-.1730				
70.000			.0490	-.4400	-.4130	-.0110			.0140		-.2250	-.4600	-.3970	-.2610	-.0500
90.000		.6280	-.0030	-.4400	-.3840	.1370			.0430		-.2800	-.5370	-.4620	-.1930	-.1250
120.000			-.0370	-.3630	-.2690	.2430			-.0040		-.3940	-.5770	-.4930	-.1630	-.1150

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

MACH (4) = 1.246 BETAT (8) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6060					
150.000			.0070	-.2630	-.0450	.4230			.2050		-.6120	-.5160	-.3340	-.3130	-.1160
157.000								.3870							
162.000									.1230						
165.000											-.6640	-.5330	-.3390	-.3700	-.1960
169.000									.2100						
172.000							.7550								
180.000	1.3270	.6470	.0360	-.1220	.1030	.6560			.4370		-.6230	-.4140	-.4290	-.5080	-.3720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2400							.0600		-.0630
40.000	.1350	-.0690		-.1490	-.1760	-.1690	-.1450			-.2410
70.000		-.0620	-.1570	-.1140	-.0210	-.1490	-.2310	-.2760		
90.000		-.0140	-.0720	.0070	-.1010	-.1540	-.2500	-.2560		
105.000				.0560	-.1250	-.1900	-.2500	-.2710		
110.000									-.3090	
120.000		-.0030	.1100	.2140	-.1480	-.3810	-.2530	-.2440	-.3090	
135.000				.6470	.2940	-.2710	-.2610	-.3040		
150.000		-.0280	.0720	.2480	.0690	-.2250	-.2920	-.3400		
165.000		-.0190		.3170	.3060	-.0940	-.1990	-.3740		
180.000		-.1500	.0160	.1770						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .597 BETAT (1) = -8.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0040	.5460	.0000	-.6320	-.1800	-.1310			-.1460		-.1590	-.1570	-.1270	-.0960	-.0320
20.000			-.0640	-.5080	-.1840	-.1180			-.1210		-.1390				
40.000			.2280	-.2110	-.0400	-.0910			-.0860		-.1060	-.0740	-.0120	.0440	.1240
55.000			.3360	-.0400	.1290	.1290			.0990		.0180				
70.000			.3340	-.0150	.1010	.1330			.0840		-.0390	-.3440	-.1080	-.0470	-.0630
90.000		.8420	.2320	-.0580	.1380	.1360			.0830		-.1000	-.4600	-.1460	-.0910	-.1310
120.000			.0310	-.0910	.1130	.1760			.1710		-.3720	-.4110	-.2160	-.1710	-.1740
142.000										-.4420					
150.000			-.1400	-.1560	.0440	.3290			-.1290		-.7840	-.2850	-.1740	-.1330	-.1260
157.000								.2900							
162.000									-.2830						
165.000											-.5010	-.2320	-.1370	-.1130	-.1000
169.000									-.5050						
172.000							.4770								
180.000	1.0040	.2300	-.4190	-.2360	-.0520	.3520			-.1260		-.6900	-.3050	-.3150	-.4080	-.2150

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0540							-.1170		-.1000
40.000	.1890	.1930		-.1980	-.3730	-.2670	-.1340			-.1120
70.000		-.2640	-.1850	-.0670	.0920	.0390	.0340	-.0250		
90.000		-.2170	-.0990	.0350	.0810	-.0150	-.0340	-.0650		
105.000				.1560	.0620	-.0140	-.0480	-.0940		
110.000									-.2050	
120.000		-.1990	.0170	.3820	-.0430	-.1070	-.0640	-.0770	-.1560	
135.000				.0760	-.1660	-.2460	-.1630	-.2040		
150.000		-.1160	.0040	-.0200	-.2600	-.1310	-.0950	-.2000		
165.000		-.090		.0370	.0340	-.0460	-.0800	-.2900		
180.000		-.178	-.1020	-.0470						

AMES 11-FOT IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (1) = .398 BETAT (2) = -6.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0390	.5775	.0005	-.5920	-.1330	-.0870			-.1030		-.1160	-.1120	-.0770	-.0520	.0080
20.000			-.0660	-.4840	-.1350	-.0820			-.0850		-.1090				
40.000			.1740	-.2470	-.0300	-.0620			-.0620		-.0950	-.0680	-.0030	.0420	.1150
55.000			.2600	-.1190	.0910	.0910			.0620		-.0170				
70.000			.2390	-.0900	.0500	.0960			.0460		-.0720	-.3750	-.1220	-.0570	-.0670
90.000		.7730	.1330	-.1300	.0920	.1000			.0430		-.1250	-.4810	-.1530	-.0960	-.1250
120.000			-.0250	-.1290	.0890	.1540			.1140		-.3750	-.3930	-.1920	-.1450	-.1500
142.000										-.4690					
150.000			-.1650	-.1580	.0500	.3290			-.1590		-.7460	-.2670	-.1620	-.1140	-.1050
157.000								.2710							
162.000									-.3190						
165.000											-.4970	-.2250	-.1310	-.0910	-.1010
169.000									-.4920						
172.000							.5050								
180.000	1.0390	.2560	-.4100	-.2160	-.0190	.3950			-.0880		-.6540	-.2550	-.2640	-.2830	-.1670

X/LB	.5873	.6628	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0680							-.1070		-.0720
40.000	.1630	.1630		-.2030	-.3610	-.2350	-.1020			-.1160
70.000		-.2780	-.2050	-.0970	.0620	.0150	.0190	-.0360		
90.000		-.2220	-.1110	.0030	.0470	-.0440	-.0440	-.0770		
105.000				.1090	.0160	-.0430	-.0620	-.1050		
110.000									-.2100	
120.000		-.1760	.0320	.3270	-.0980	-.1320	-.0730	-.0860	-.1590	
135.000				.1560	-.1300	-.2260	-.1470	-.1940		
150.000		-.0980	.0230	.0220	-.2210	-.1560	-.1120	-.2050		
165.000		-.0840		.0500	.0450	-.0810	-.1210	-.2890		
180.000		-.1280	-.0430	-.0400						

MACH (1) = .597 BETAT (3) = -4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0670	.5950	.0000	-.5800	-.1070	-.0600			-.0670		-.0890	-.0840	-.0490	-.0110	.0420
20.000			-.0960	-.4830	-.1110	-.0600			-.0620		-.0870				
40.000			.0970	-.2360	-.0320	-.0370			-.0480		-.0980	-.0720	-.0280	.0360	.1220
55.000			.1630	-.1920	.0480	.0530			.0220		-.0410				
70.000			.1300	-.1810	-.0030	.0540			.0090		-.1160	-.4410	-.1390	-.0780	-.0980
90.000		.7050	.0260	-.2140	.0450	.0630			.0000		-.1750	-.4130	-.1660	-.1110	-.1220
120.000			-.0990	-.1790	.0650	.1240			-.0310		-.3530	-.3320	-.1770	-.1270	-.1310

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM8:0)

MACH (1) = .597 BETAT (3) = -4.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5000					
150.000			-.1890	-.1780	.0560	.3170			-.2000		-.7000	-.2560	-.1480	-.0980	-.0850
157.000								.2410							
162.000									-.3490						
165.000											-.5040	-.2250	-.1220	-.0780	-.0880
169.000									-.4890						
172.000							.5280								
180.000	1.0670	.2880	-.3700	-.1950	.0130	.4320			-.0650		-.6210	-.2210	-.2070	-.1360	-.1370

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	929_	.9639	1.0015	1.0392
PHI										
.000	.0940							-.1010		-.0490
40.000	.1450	.1280		-.1920	-.3330	-.2070	-.0940			-.1260
70.000		-.2810	-.2230	-.1300	.0360	-.0150	-.0010	-.0470		
90.000		-.2230	-.1300	-.0380	.0030	-.0730	-.0610	-.0900		
105.000				.0510	-.0320	-.0710	-.0860	-.1200		
110.000									-.2080	
120.000		-.1580	.0370	.2660	-.1590	-.1540	-.0900	-.0950	-.1630	
135.000				.2200	-.1150	-.2240	-.1500	-.1840		
150.000		-.0870	.0430	.0650	-.1750	-.1840	-.1430	-.2240		
165.000		-.0740		.0760	.0490	-.1230	-.1600	-.2810		
180.000		-.0920	-.0080	.0190						

MACH (2) = .597 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0760	.6240	.0000	-.5550	-.0870	-.0410			-.0530		-.0680	-.0660	-.0290	.0090	.0640
20.000			-.1270	-.4880	-.0880	-.0410			-.0480		-.0700				
40.000			.0150	-.3470	-.0460	-.0330			-.0350		-.0940	-.0910	-.0130	.0230	.0330
55.000			.0490	-.2860	-.0060	.0130			-.0180		-.0850				
70.000			.0060	-.2760	-.0510	.0110			-.0320		-.1390	-.4300	-.1520	.0780	-.0770
90.000		.6170	-.0910	-.3020	.0050	.0220			-.0390		-.1870	-.5140	-.1650	-.0950	-.1120
120.000			-.1790	-.2360	.0260	.0880			-.0270		-.3860	-.3690	-.1590	-.1080	-.1050
142.000										-.5350					
150.000			-.2320	-.1990	.0430	.3000			-.2350		-.6630	-.2450	-.1350	-.0820	-.0710
157.000								.1950							
162.000									-.4150						
165.000											-.5250	-.2220	-.1160	-.0690	-.0
169.000									-.4980						
172.000							.5320								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (1) = .597 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.0760	.2900	-.3660	-.1780	.0320	.4530			-.0490		-.6060	-.1970	-.1580	-.0610	-.0760

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1080							-.0890		-.0220
40.000	.1190	.0880		-.1830	-.3010	-.1760	-.0810			-.1340
70.000		-.2900	-.2450	-.1590	.0000	-.0410	-.0200	-.0570		
90.000		-.2200	-.1360	-.0730	-.0420	-.0940	-.0780	-.1000		
105.000				-.0070	-.0810	-.0960	-.1050	-.1290		
110.000									-.2160	
120.000		-.1390	.0410	.1890	-.2320	-.1820	-.1030	-.1120	-.1670	
135.000				.2730	-.1070	-.2320	-.1490	-.1820		
150.000		-.0720	.0570	.0960	-.1260	-.2170	-.1750	-.2370		
165.000		-.0670		.0990	.0570	-.1730	-.2000	-.2700		
180.000		-.0650	.0140	.0330						

MACH (1) = .598 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0780	.6130	.0000	-.5530	-.0910	-.0330			-.0470		-.0630	-.0530	-.0210	.0210	.0730
20.000			-.1760	-.5000	-.0900	-.0390			-.0450		-.0720				
40.000			-.0870	-.4030	-.0710	-.0300			-.0450		-.1160	-.1040	-.0290	.0190	.0760
55.000			-.0590	-.3740	-.0540	-.0260			-.0580		-.1180				
70.000			-.1220	-.3680	-.1040	-.0230			-.0700		-.1700	-.4450	-.1690	-.0800	-.0810
90.000		.5240	-.2190	-.3840	-.0470	-.0130			-.0770		-.2160	-.5130	-.1610	-.0900	-.1100
120.000			-.2670	-.2900	-.0100	.0470			-.1010		-.3850	-.3560	-.1480	-.0880	-.0820
142.000										-.5580					
150.000			-.2710	-.2270	.0280	.2660			-.2840		-.6280	-.2300	-.1190	-.0680	-.0670
157.000								.1350							
162.000									-.4710						
165.000											-.5320	-.2060	-.1120	-.0640	-.0610
169.000									-.5120						
172.000							.5170								
180.000	1.0780	.3010	-.3490	-.1680	.0410	.4570			-.0430		-.5960	-.1860	-.1400	-.0670	-.0540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1180							-.0900		-.0280
40.000	.0990	.0490		-.1830	-.2520	-.1570	-.0740			-.1450

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (1) = .598 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2820	-.2590	-.1880	-.0320	-.0670	-.0390	-.0740		
90.000		-.2140	-.1510	-.1130	-.0860	-.1180	-.0 0	-.1110		
105.000				-.0790	-.1250	-.1190	-.1210	-.1440		
110.000									-.2250	
120.000		-.1220	.0360	.0840	-.3010	-.2080	-.1250	-.1260	-.1750	
135.000				.2950	-.1070	-.2470	-.1670	-.1875		
150.000		-.0650	.0600	.1580	-.0810	-.2500	-.2130	-.2470		
165.000		-.0560		.1230	.0600	-.2190	-.2390	-.2650		
180.000		-.0480	.0240	.0280						

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0198	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0770	.6010	.0000	-.5680	-.0960	-.0460			-.0500		-.0720	-.0660	-.0340	.0140	.0600
20.000			-.2290	-.5270	-.0940	-.0510			-.0550		-.0850				
40.000			-.1840	-.4610	-.1000	-.0480			-.0620		-.1410	-.1330	-.0560	-.0040	.0530
55.000			-.1940	-.4610	-.1030	-.0700			-.0930		-.1540				
70.000			-.2590	-.4610	-.1490	-.0590			-.1010		-.2030	-.4660	-.1790	-.0910	-.0870
90.000		.4220	-.3440	-.4620	-.0910	-.0570			-.1220		-.2420	-.5210	-.1670	-.0930	-.1050
120.000			-.3600	-.3650	-.0540	-.0020			-.1840		-.3890	-.3550	-.1380	-.0830	-.0710
142.000										-.6100					
150.000			-.3170	-.2720	-.0020	.2200			-.3390		-.5930	-.2300	-.1170	-.0700	-.0520
157.000								.0560							
162.000									-.5540						
165.000											-.5370	-.2030	-.1100	-.0630	-.0630
169.000									-.5420						
172.000							.4890								
180.000	1.0770	.3020	-.3570	-.1810	.0270	.4440			-.0600		-.6040	-.2000	-.1550	-.0790	-.0810

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1080							-.0870		-.0540
40.000	.0730	-.0030		-.1810	-.2300	-.1480	-.0780			-.1510
70.000		-.2860	-.2760	-.2110	-.0720	-.0950	-.0650	-.0910		
90.000		-.2080	-.1650	-.1570	-.1420	-.1480	-.1200	-.1290		
105.000				-.1540	-.1760	-.1500	-.1440	-.1620		
110.000									-.2510	
120.000		-.1170	.0160	-.0250	-.3760	-.2390	-.1510	-.1450	-.1930	
135.000				.2700	-.1260	-.2910	-.1990	-.2040		
150.000		-.0660	.0510	.2120	-.0640	-.2960	-.2510	-.2760		

AMES 11-7U7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0570		.1340	.0740	-.2840	-.2830	-.2670		
180.000		-.0690	.0100	.0270						

MACH (1) = .597 BETAT (7) = 4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0610	.5810	.0000	-.5720	-.1130	-.0620			-.0690		-.0920	-.0780	-.0540	-.0050	.0360
20.000			-.2830	-.5500	-.1130	-.0690			-.0680		-.1090				
40.000			-.2840	-.5220	-.1370	-.0700			-.0800		-.1720	-.1590	-.0830	-.0260	.0280
55.000			-.3210	-.5480	-.1480	-.1070			-.1240		-.1750				
70.000			-.3820	-.5480	-.1860	-.0900			-.1310		-.2260	-.4760	-.1750	-.0900	-.0840
90.000		.3210	-.4630	-.5530	-.1230	-.0920			-.1510		-.2590	-.5170	-.1610	-.0840	-.0920
120.000			-.4370	-.4350	-.0940	-.0510			-.2510		-.3820	-.3490	-.1280	-.0720	-.0630
142.000										-.7210					
150.000			-.3650	-.3110	-.0380	.1670			-.3930		-.5460	-.2290	-.1080	-.0730	-.0540
157.000								-.0250							
162.000									-.6300						
165.000											-.5360	-.2000	-.1020	-.0710	-.0640
169.000									-.5740						
172.000							.4510								
180.000	1.0610	.2950	-.3650	-.1910	.0210	.4260			-.0730		-.6290	-.2160	-.1770	-.1250	-.1320

X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0920							-.0960		-.1330
40.000	.0510	-.0250		-.1530	-.1810	-.1140	-.0600			-.1800
70.000		-.2800	-.2840	-.2260	-.1050	-.1130	-.0860	-.0980		
90.000		-.2030	-.1800	-.1850	-.1690	-.1570	-.1370	-.1370		
105.000				-.1770	-.2190	-.1820	-.1600	-.1690		
110.000									-.2650	
120.000		-.1150	-.0040	-.1110	-.4730	-.2630	-.1660	-.1560	-.2050	
135.000				.3610	-.1580	-.3320	-.2250	-.2150		
150.000		-.0710	.0510	.2070	-.0640	-.3400	-.2910	-.2830		
165.000		-.0720		.1380	.0690	-.3510	-.3330	-.2780		
180.000		-.0930	-.0100	.0140						

AMES 11-70? IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBML'0)

MACH (1) = .598 BETAT (8) = 6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0350	.5700	.0000	-.5980	-.1360	-.0960			-.0990		-.1260	-.1110	-.0850	-.0340	-.0020
20.000			-.3360	-.5910	-.1360	-.1000			-.1000		-.1450				
40.000			-.3900	-.5860	-.1790	-.1120			-.1250		-.2190	-.2060	-.1200	-.0560	.0080
55.000			-.4490	-.6390	-.1960	-.1430			-.1580		-.2010				
70.000			-.5240	-.6400	-.2280	-.1200			-.1640		-.2460	-.4820	-.1790	-.0990	-.0830
90.000		.2010	-.5990	-.6400	-.1660	-.1240			-.1900		-.2810	-.5100	-.1600	-.0850	-.0870
120.000			-.5440	-.5110	-.1480	-.1050			-.3410		-.3900	-.3430	-.1250	-.0660	-.0600
142.000										-.9110					
150.000			-.4350	-.3700	-.0890	.0990			-.4490		-.5340	-.2330	-.1190	-.0750	-.0600
157.000								-.1230							
162.000									-.7250						
165.000											-.5570	-.2090	-.1230	-.0840	-.0880
169.000									-.6060						
172.000							.3960								
180.000	1.0350	.2680	-.3910	-.2140	-.0120	.3890			-.1050		-.6690	-.2520	-.2180	-.2610	-.1730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9659	1.0015	1.0392
PHI										
.000	.0700							-.1100		-.1580
40.000	.0290	-.0480		-.1420	-.1640	-.1360	-.0830			-.2300
70.000		-.2860	-.2990	-.2580	-.1360	-.1400	-.1060	-.1180		
90.000		-.2090	-.1930	-.2210	-.1920	-.1870	-.1570	-.1550		
105.000				-.2180	-.2600	-.1920	-.1820	-.1910		
110.000									-.2780	
120.000		-.1240	-.0180	-.1670	-.5510	-.3050	-.1970	-.1790	-.2190	
135.000				.3360	-.1820	-.3840	-.2570	-.2430		
150.000		-.0840	.0300	.1940	-.0860	-.4050	-.3300	-.3110		
165.000		-.1030		.1270	.0310	-.4610	-.3990	-.3060		
180.000		-.1330	-.0550	-.0500						

MACH (1) = .596 BETAT (9) = 8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.9900	.5270	.0000	-.6360	-.1770	-.1390			-.1380		-.1630	-.1560	-.1230	-.0580	-.0370
20.000			-.4110	-.6350	-.1830	-.1440			-.1450		-.1820				
40.000			-.5070	-.6690	-.2340	-.1620			-.1820		-.2710	-.2540	-.1650	-.0950	-.0090
55.000			-.5940	-.7390	-.2450	-.1780			-.1920		-.2320				
70.000			-.6750	-.7700	-.2700	-.1490			-.1880		-.2640	-.4840	-.1890	-.1000	-.0770
90.000		.0730	-.7390	-.7560	-.2060	-.1390			-.2290		-.2970	-.4990	-.1580	-.1100	-.0870
120.000			-.6540	-.6080	-.2360	-.1650			-.4270		-.3960	-.3360	-.1220	-.0630	-.0430

AMES 11-707 IA9 OEA + SZ + TL ORBITER FUSELAGE (RBMB10)

MACH (1) = .596 BETAT (9) = 8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.0940					
150.000			-.5070	-.4230	-.1480	.0210			-.5160		-.5270	-.2460	-.1330	-.0890	-.0700
157.000								-.2500							
162.000									-.8370						
165.000											-.6030	-.2270	-.1550	-.1290	-.1260
169.000									-.6490						
172.000							.3170								
180.000	.0570	.2420	-.4070	-.2440	-.0590	.3300			-.1520		-.7310	-.2960	-.3150	-.4120	-.2290
X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0530							-.1240		-.1490					
40.000	.0190	-.0370		-.1740	-.1950	-.1330	-.1260			-.2000					
70.000		-.2920	-.3160	-.2830	-.1610	-.1720	-.1400	-.1610							
90.000		-.2130	-.2090	-.2500	-.2260	-.2230	-.1860	-.1820							
105.000				-.2510	-.3040	-.2510	-.2160	-.2190							
110.000									-.2920						
120.000		-.1340	-.0340	-.1900	-.6090	-.3430	-.2280	-.2050	-.2390						
135.000				.3540	-.1760	-.4460	-.2960	-.2650							
150.000		-.1190	-.0270	.1090	-.2270	-.5140	-.4270	-.3720							
165.000		-.1220		.0640	-.0380	-.5800	-.4670	-.3180							
180.000		-.1910	-.1180	-.0930											

MACH (2) = .901 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1560	.7600	.0090	-.8110	-.2600	-.1070			-.1280		-.1880	-.2400	-.1740	-.0820	.0250
20.000			.1680	-.5800	-.2800	-.1220			-.1070		-.1660				
40.000			.3760	-.2860	-.0920	-.1190			-.0950		-.1510	-.1970	-.0570	.0550	.1730
55.000			.4420	-.1260	.0860	.1450			.1290		.0290				
70.000			.4140	-.1050	.0610	.1740			.1370		-.0080	-.5860	-.1950	-.0010	.0240
90.000		.9460	.2920	-.1760	.1190	.2010			.1600		-.0570	-.7310	-.2490	-.0455	-.0480
120.000			.0720	-.2200	.1000	.2810			.2980		-.2940	-.8660	-.2540	-.1190	-.1060
142.000										-.5130					
150.000			-.1030	-.4120	.0370	.4760			.1650		-.7350	-.7400	-.2020	-.0730	-.0530
157.000								.5110							
162.000									.0430						
165.000											-.5990	-.5850	-.147	-.0550	-.0240
169.000									-.2160						
172.000							.6760								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (2) = .901 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1560	.3980	-.3850	-.5050	-.0760	.5100			.1410		-1.0860	-.5550	-.4220	-.2450	-.1340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1270							-.0880		-.0600
40.000	.2610	.3110		.0150	-.2170	-.2670	-.1730			-.1320
70.000		-.3070	-.4940	-.0590	.1280	.0340	.0550	.0260		
90.000		-.2790	-.3790	.0550	.0710	-.0080	.0190	.0150		
105.000				.1330	.0640	-.0430	-.0140	-.0160		
110.000									-.2210	
120.000		-.2920	-.0280	.4270	-.0670	-.1160	-.0120	-.0130	-.1520	
135.000				.2140	-.0840	-.1870	-.0750	-.1150		
150.000		-.1670	.0380	.0260	-.2290	-.0770	-.0100	-.1480		
165.000		-.1310		.0870	.0650	-.0120	.0050	-.3120		
180.000		-.1650	-.0330	.0040						

MACH (2) = .900 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1770	.8330	.0000	-.8230	-.2310	-.0760			-.0910		-.1500	-.1930	-.1260	-.0350	.0570
20.000			.1460	-.6330	-.2700	-.0600			-.0800		-.1400				
40.000			.3150	-.4090	-.1280	-.0750			-.0690		-.1370	-.2050	-.0590	.0600	.1640
55.000			.3600	-.2810	.0340	.1130			.0900		-.0150				
70.000			.3220	-.2670	.0000	.1330			.0990		-.0590	-.6170	-.2700	-.0110	.0100
90.000		.8350	.1900	-.3370	.0690	.1680			.1170		-.1070	-.7570	-.2800	-.0420	-.0530
120.000			-.0020	-.3340	.0840	.2640			.2290		-.3510	-.8820	-.2890	-.0870	-.0860
142.000										-.6220					
150.000			-.1380	-.4790	.0540	.4780			.1500		-.7600	-.7320	-.1860	-.0550	-.0390
157.000								.4950							
162.000									.0250						
165.000											-.7450	-.5730	-.1170	-.0230	-.0270
169.000									-.1960						
172.000							.7010								
180.000	1.1770	.4010	-.3880	-.5080	-.0230	.5490			.1590		-1.1370	-.4900	-.3360	-.1290	-.0970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1390							-.0950		-.0280
40.000	.2360	.2700		-.0240	-.2460	-.2460	-.1520			-.1200

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (2) = .900 BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
75.000		-.3100	-.4700	-.1100	.0800	.0100	.0460	.0240		
90.000		-.2750	-.3390	.0020	.0200	-.0320	-.0010	.0050		
105.000				.0730	.0030	-.0720	-.0270	-.0260		
110.000									-.2290	
120.000		-.2610	-.0280	.3610	-.1470	-.1370	-.0230	-.0250	-.1640	
135.000				.2650	-.0740	-.1870	-.0710	-.1130		
150.000		-.1480	.0390	.0610	-.1910	-.1170	-.0450	-.1650		
165.000		-.1200		.1010	.0680	-.0650	-.0480	-.3120		
180.000		-.1300	-.0200	.0240						

MACH (2) = .903 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1950	.7870	.0000	-.8430	-.2910	-.0450			-.0680		-.1320	-.1570	-.1030	.0070	.0870
20.000			.1050	-.6850	-.2840	-.0480			-.0580		-.1340				
40.000			.2400	-.5140	-.1810	-.0480			-.0530		-.1440	-.2030	-.0780	.0580	.1450
55.000			.2660	-.4470	-.0320	.0810			.0500		-.0610				
70.000			.2210	-.4530	-.0460	.1020			.0590		-.1130	-.6370	-.3330	-.0130	-.0020
90.000		.6240	.0930	-.5140	.0340	.1340			.0760		-.1550	-.7730	-.3480	-.0320	-.0510
120.000			-.0750	-.4680	.0690	.2370			.1580		-.3920	-.8910	-.3070	-.0510	-.0640
142.000										-.7250					
150.000			-.1740	-.5170	.0760	.4680			.1350		-.7930	-.7220	-.1670	-.0220	-.0250
157.000								.4720							
162.000									.0000						
165.000											-.8970	-.5160	-.1240	.0070	-.0160
169.000									-.1690						
172.000							.7120								
180.000	1.1950	.4170	-.3770	-.5230	.0340	.5770			.1820		-1.2200	-.4710	-.2870	-.0360	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1620							-.0930		-.0290
45.000	.2160	.2350		-.0550	-.2600	-.2200	-.1260			-.1300
70.000		-.3090	-.4650	-.1700	.0320	-.0180	.0370	.0170		
90.000		-.2630	-.3200	-.0560	-.0420	-.0640	-.0130	-.0030		
105.000				.0080	-.0950	-.1040	-.0460	-.0370		
110.000									-.2360	
121.000		-.2260	-.0250	.2950	-.2830	-.1570	-.0480	-.0370	-.1740	
135.000				.3120	-.0860	-.1930	-.0870	-.1160		
150.000		-.1240	.0430	.1010	-.1520	-.1620	-.0980	-.1870		

AMES 11-7?7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (2) = .903 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.1040		.1220	.0580	-.1280	-.1140	-.3000		
180.000		-.1080	-.0040	.0450						

MACH (2) = .902 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2040	.7900	.0000	-.8640	-.4120	-.0290			-.0500		-.1190	-.1520	-.0830	.0260	.1080
20.000			.0700	-.7290	-.4860	-.0360			-.0470		-.1270				
40.000			.1670	-.5850	-.1520	-.0260			-.0420		-.1480	-.2080	-.0880	.0460	.1330
55.000			.1780	-.5560	-.0200	.0480			.0160		-.1090				
70.000			.1250	-.5880	-.0450	.0680			.0150		-.1650	-.6790	-.2890	-.0210	-.0100
90.000		.7510	-.0010	-.6380	.0400	.0960			.0260		-.2130	-.8000	-.2550	-.0260	-.0490
120.000			-.1380	-.6310	.0650	.2060			.0830		-.4570	-.9120	-.2900	-.0170	-.0380
142.000										-.8380					
150.000			-.2120	-.5710	.0840	.4490			.1050		-.8500	-.7340	-.1550	.0030	-.0110
157.000								.4350							
162.000									-.0400						
165.000											-.9790	-.5550	-.1180	.0230	-.0090
169.000									-.1610						
172.000							.7150								
180.000	1.2060	.4260	-.3820	-.5210	.0660	.5990			.1880		-1.2830	-.4790	-.2350	-.0080	-.0240

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1810							-.0750		-.0640
40.000	.1880	.1830		-.0880	-.2770	-.2060	-.1190			-.1330
70.000		-.3090	-.4210	-.2390	-.0430	-.0470	.0170	.0050		
90.000		-.2540	-.2730	-.1200	-.1580	-.0960	-.0320	-.0150		
105.000				-.0520	-.2260	-.1300	-.0670	-.0530		
110.000									-.2400	
120.000		-.1930	-.0050	.2070	-.3780	-.1880	-.0640	-.0560	-.1850	
135.000				.3270	-.1000	-.2160	-.1080	-.1310		
150.000		-.1070	.0470	.1300	-.1040	-.2160	-.1350	-.2250		
165.000		-.0930		.1350	.0580	-.1960	-.1650	-.3010		
180.000		-.0890	.0120	.0550						

AMES 11-FOOT TAS OEA - 81 - ORBITER FUSELAGE (RBM910)

MACH (2) = .902 BETAT ( ) 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2040	.7960	.0000	-.8700	-.4120	-.0330			-.0550		-.1200	-.1480	-.0820	.0290	.1080
20.000			.0030	-.7850	-.5870	-.0340			-.0530		-.1400				
40.000			.0280	-.7040	-.5260	-.0190			-.0480		-.1910	-.2360	-.1280	.0180	.0990
55.000			.0040	-.7200	-.5420	-.0140			-.0550		-.2030				
70.000			-.0690	-.7770	-.5610	.0110			-.0570		-.2830	-.7330	-.1860	-.0390	-.0180
90.000		.5970	-.1760	-.8140	-.0680	.0360			-.0540		-.3580	-.8310	-.2470	-.0300	-.0310
120.000			-.2740	-.7790	.0180	.1300			-.0670		-.6110	-.8340	-.2230	-.0210	-.0040
142.000										-1.1330					
150.000			-.2900	-.6750	.0330	.3790			.0300		-.6050	-.3900	-.3380	.0130	-.0010
157.000								.3110							
162.000									-.1420						
165.000											-.6610	-.6210	-.3340	.0350	.0040
169.000									-.1630						
172.500							.6780								
180.000	1.2040	.4340	-.3870	-.5150	.0610	.5920			.1820		-1.2730	-.4790	-.0980	-.0100	-.0290
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1720							-.0750		-.0900					
40.000	.1340	.0710		-.1340	-.2770	-.1840	-.0900			-.1630					
70.000		-.2930	-.3240	-.2970	-.2340	-.1520	-.0460	-.0480							
90.000		-.2187	-.1850	-.2070	-.3410	-.1990	-.0830	-.0800							
105.000				-.1660	-.3820	-.2860	-.1040	-.1090							
110.000									-.2710						
120.000		-.1290	-.0040	-.0430	-.4900	-.3890	-.1130	-.1240	-.2130						
135.000				.2650	-.1120	-.5540	-.1790	-.2040							
150.000		-.0810	.0410	.2110	-.0170	-.4330	-.2440	-.2900							
165.000		-.0700		.1420	.0300	-.3460	-.2810	-.3020							
180.000		-.0870	.0100	.0530											

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1910	.7700	.0000	-.8660	-.1930	-.0560			-.0680		-.1420	-.1710	[illegible]	[illegible]	.0850
20.000			-.0330	-.8120	-.4700	-.0530			-.0650		-.1650				
40.000			-.0390	-.7590	-.5790	-.0340			-.0700		-.2220	-.2690	[illegible]	[illegible]	[illegible]
55.000			-.0870	-.8040	-.6280	-.0380			-.0860		-.2360				
70.000			-.1600	-.8570	-.6610	-.0150			-.0860		-.3390	-.7530	-.1610	-.0630	-.0230
90.000		.5170	-.2600	-.8890	-.2770	.0050			-.0950		-.4170	[illegible]	[illegible]	[illegible]	[illegible]
120.000			-.3750	-.8220	-.0510	.0820			-.1450		-.6220	-.7460	-.2610	-.0230	[illegible]

AMES 11-7ft IA9 02A + S3 + T2 ORBITER FUSELAGE (RBMB10)

MACH (2) = .901 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1790					
150.000			-.3270	-.7060	-.0290	.3300			-.0230		-.6280	-.6160	-.3810	-.0010	.0060
157.000								.2340							
162.000									-.2030						
165.000											-.6450	-.6210	-.3770	-.0010	.0020
169.000									-.1770						
172.000							.6440								
180.000	1.1910	.4310	-.3860	-.4980	.0200	.5720			.1640		-1.2090	-.4670	-.3170	-.0570	-.0760

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1540							-.0870		-.0220
40.000	.1060	.0060		-.1320	-.2420	-.1470	-.1100			-.1960
70.000		-.2790	-.3000	-.3100	-.2740	-.2580	-.0840	-.0770		
90.000		-.2020	-.1780	-.2360	-.3740	-.3910	-.1170	-.1071		
105.000				-.1950	-.4190	-.4500	-.1310	-.1390		
110.000									-.2930	
120.000		-.1180	-.0070	-.1000	-.5470	-.5740	-.1380	-.1470	-.2350	
135.000				.2930	-.1000	-.6400	-.2100	-.2090		
150.000		-.0780	.0460	.1940	-.0060	-.4700	-.2900	-.2940		
165.000		-.0770		.1320	.0800	-.4260	-.3720	-.3200		
180.000		-.1030	-.0930	.0530						

MACH (2) = .901 BETAT (7) = 6.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1720	.7800	.0000	-.8430	-.2180	-.0780			-.0910		-.1530	-.1860	-.1260	-.0130	.0513
20.000			-.0620	-.8220	-.2900	-.0700			-.0890		-.1890				
40.000			-.1070	-.8020	-.5960	-.0550			-.0950		-.2670	-.2870	-.1790	-.0360	.0540
59.000			-.1710	-.8670	-.7040	-.0560			-.1070		-.2730				
70.000			-.2570	-.9320	-.7800	-.0320			-.1080		-.3670	-.7480	-.1820	-.0620	-.0160
90.000		.4280	-.3450	-.9620	-.5080	-.0190			-.1240		-.4500	-.8260	-.2230	-.0390	-.0210
120.000			-.4030	-.8840	-.1510	.0330			-.2120		-.5680	-.5910	-.3420	-.0330	.0030
142.000										-.9430					
150.000			-.3700	-.7200	-.1150	.2690			-.0770		-.6860	-.5960	-.4250	-.0450	-.0020
157.000								.1400							
162.000									-.2640						
165.000											-.6310	-.5680	-.4050	-.0470	-.031
169.000									-.1930						
172.000							.5860								

AMES 11-707 (A3 02A + SC + T9 ORBITER FUSELAGE (RUN810)

MACH (2) = .901 BETAT (7) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1720	.4180	-.3910	-.4880	-.0200	.5330			.1430		-1.1540	-.4780	-.3380	-.1050	-.1080
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1370							-.0980		-.0350					
40.000	.0830	-.0230		-.1380	-.1990	-.2040	-.1350			-.2500					
70.000		-.2540	-.2850	-.3160	-.2680	-.4440	-.1240	-.1100							
90.000		-.1790	-.1720	-.2420	-.3800	-.5300	-.1570	-.1280							
105.000				-.2040	-.4380	-.5440	-.1640	-.1530							
110.000									-.3010						
120.000		-.1090	-.0180	-.1130	-.5820	-.6110	-.1920	-.1570	-.2480						
135.000				.3340	-.0570	-.6370	-.4580	-.2150							
150.000		-.0980	.0130	.1350	-.0950	-.5090	-.5390	-.3560							
165.000		-.1010		.1180	.0490	-.4780	-.4980	-.3260							
180.000		-.1300	-.0220	.0230											

MACH (2) = .900 BETAT (8) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1430	.7360	.0000	-.6260	-.2560	-.1150			-.1220		-.1970	-.2240	-.1720	-.0430	.0210
20.000			-.1020	-.8490	-.3110	-.1030			-.1210		-.2300				
40.000			-.1830	-.8590	-.4410	-.0900			-.1350		-.3100	-.3280	-.2180	-.0850	.0250
55.000			-.2650	-.9440	-.7610	-.0730			-.1300		-.2880				
70.000			-.3650	-1.0130	-.8560	-.0470			-.1310		-.3520	-.7670	-.1840	-.0800	-.0050
90.000		.3400	-.4380	-1.0310	-.7290	-.0460			-.1620		-.4100	-.8380	-.2480	-.0520	-.0120
120.000			-.4650	-.9360	-.3580	-.0280			-.2910		-.5800	-.5420	-.4140	-.0480	.0060
142.000										-.8150					
150.000			-.4100	-.7240	-.2290	.1900			-.1520		-. 30	-.5980	-.4410	-.0450	-.0350
157.000								.0390							
162.000									-.3290						
165.000											-.6370	-.5560	-.4070	-.1060	-.0600
169.000									-.2140						
172.000							.5120								
180.000	1.1430	.4040	-.3960	-.4510	-.0930	.4810			.1110		-1.1380	-.5180	- 4000	-.2560	-.1540
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1270							-.0960		-.0620					
40.000	.0560	-.0500		- 1980	-.2020	-.1390	-.1740			-.2530					

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (2) = .900 BETAT (8) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2500	-.2770	-.3210	-.2960	-.5430	-.1560	-.1450		
90.000		-.1790	-.1790	-.2440	-.3830	-.5550	-.2130	-.1510		
105.000				-.1940	-.4470	-.5530	-.2370	-.1710		
110.000									-.3160	
120.000		-.1140	-.0160	-.0730	-.5750	-.6250	-.3500	-.1670	-.2470	
135.000				.3210	-.0170	-.6490	-.5700	-.2440		
150.000		-.1350	-.0350	.0390	-.2180	-.5950	-.6550	-.4730		
165.000		-.1250		.0710	.0090	-.5430	-.5670	-.3490		
180.000		-.1680	-.0450	-.0100						

MACH (3) = 1.103 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.2090	.8760	.0000	-.4730	-.2460	-.2800			-.0880		.0240	-.0330	-.1400	-.2180	-.1820
20.000			.3670	-.2880	-.2370	-.2640			-.0160		.0010				
40.000			.5740	-.0580	-.0110	-.1660			-.0470		-.0660	-.0230	-.0480	-.0510	.1010
55.000			.6490	.0730	.1230	.1520			.2290		.1590				
70.000			.6230	.0720	.1010	.2190			.2660		.1250	-.3080	-.2180	-.1300	-.1180
90.000		1.0710	.5020	-.0250	.1290	.2840			.3060		.0720	-.4060	-.2580	-.1800	-.1480
120.000			.3050	-.1340	.1300	.4090			.4380		-.1090	-.4870	-.4520	-.2880	-.2810
142.000										-.2710					
150.000			.1410	-.2770	.1070	.6210			.3940		-.4700	-.4340	-.4200	-.2990	-.1890
157.000								.6900							
162.000									.2900						
165.000											-.4830	-.3350	-.3890	-.2610	-.1550
169.000									.0740						
172.000							.8310								
180.000	1.2090	.5680	-.0950	-.2930	.0160	.6410			.3610		-.8850	-.5550	-.6890	-.6510	-.3770

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2030							.0410		-.0640
40.000	.3190	.4500		.2230	.0710	-.4040	-.3060			-.0880
70.000		-.0490	-.3080	-.3550	-.0050	-.0640	-.0890	.0990		
90.000		-.0290	-.2690	.0040	-.1590	-.0860	-.1560	.1230		
105.000				.0590	-.0500	-.1250	-.1920	.1110		
110.000									-.1450	
120.000		-.1150	-.2030	.5340	-.0010	-.2480	-.2120	.1390	-.0140	
135.000				.2820	.0660	-.3980	-.1560	0700		
150.000		-.0110	.0770	.1320	-.0400	-.1990	-.0210	-.0270		

AMES 11-7U7 IA9 02A + 9E + T9 ORBITER FUSELAGE (RBMB10)

MACH (3) = 1.103 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0030		.1930	.2050	-.0720	-.0020	-.2730		
180.000		-.0280	.0560	.1720						

MACH (3) = 1.103 BETAT (2) = -6.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.8470	.0000	-.5410	-.3160	-.1260			.0000		.0270	-.0260	-.1080	-.1780	-.1010
20.000			.2960	-.3710	-.2960	-.1300			.0330		.0260				
40.000			.5050	-.1560	-.0880	-.2460			.0790		-.0080	-.0400	-.0550	-.0510	.0900
55.000			.5700	-.0400	.0390	.0780			.2510		.1300				
70.000			.5400	-.0390	.0210	.1650			.2620		.0890	-.3250	-.9580	-.1570	-.1270
90.000		1.3410	.4280	-.1190	.0670	.2510			.2870		.0320	-.4240	-.9020	-.1980	-.1980
120.000			.2510	-.1970	.0670	.3910			.3860		-.1470	-.5000	-.4500	-.2090	-.2100
142.000										-.3450					
150.000			.1280	-.3110	.1060	.6210			.3620		-.4810	-.4660	-.4160	-.2970	-.1910
157.000								.6720							
162.000									.2740						
165.000											-.5830	-.3630	-.3880	-.2540	-.1120
169.000									.0930						
172.000							.6650								
180.000	1.2860	.6360	-.0770	-.2980	.0270	.6910			.3620		-.8640	-.5520	-.5840	-.5070	-.1970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							.0260		-.0740
40.000	.2850	.4060		.1650	.0440	-.4220	-.2860			-.1000
70.000		-.0370	-.3030	-.3320	-.0300	-.1380	-.1500	.0760		
90.000		-.0110	-.2560	-.0020	-.1750	-.1260	-.2620	.1210		
105.000				.0770	-.0780	-.1440	-.2910	.0580		
115.000									-.1390	
120.000		-.0720	-.1460	.4890	-.0340	-.2810	-.2600	.0630	-.0160	
135.000				.3470	.0910	-.3730	-.1600	-.0850		
150.000		-.0070	.1000	.1580	.0100	-.2060	-.0620	-.1080		
165.000		.0070		.2090	.2340	-.0790	-.0400	-.2930		
180.000		-.0050	.0690	.1890						

AMES 11-707 IA9 OEA + SS + T9 ORBITER FUSELAGE (RBMB10)

MACH (3) = 1.102 BETAT (3) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.7940	.0000	-.6260	-.2580	-.1650			.1110		.0350	-.0170	-.0690	-.1190	.0780
20.000			.1690	-.4880	-.3680	-.1720			.1120		.0240				
40.000			.3980	-.2690	-.1710	-.1270			.1080		.0130	-.0290	-.0920	-.0690	.0680
55.000			.4830	-.1450	-.0460	.1230			.2310		.1000				
70.000			.4680	-.1420	-.0630	.1910			.2410		.0500	-.3510	-.2630	-.1840	-.1480
90.000		1.0040	.3710	-.1960	-.0430	.2390			.2610		-.0180	-.4430	-.3310	-.2160	-.1780
120.000			.2240	-.2420	-.0250	.3700			.3250		-.1930	-.5100	-.4580	-.2720	-.1990
142.000										-.4550					
150.000			.1200	-.3230	.0090	.6250			.3720		-.5050	-.4960	-.4080	-.2330	-.[illegible]
157.000								.6830							
162.000									.2350						
165.000											-.7300	-.3940	-.3880	-.1900	-.0810
169.000									.1170						
172.000							.6940								
180.000	1.3100	.6450	-.0580	-.2750	-.0630	.7300			.4050		-.6300	-.5660	-.4400	-.2540	-.1480

X/LB	.3673	.6626	.7380	.7869	.8283	.8648	.9262	.9659	1.0015	1.0992
PHI										
.000	.2090							.0050		-.0800
40.000	.2900	.3590		.1460	.0190	-.4370	-.2330			-.1030
70.000		-.0400	-.2930	-.2900	-.0360	-.1660	-.2430	.0300		
90.000		-.0040	-.2400	-.0160	-.1770	-.1570	-.3010	-.1090		
105.000				.0660	-.1060	-.1750	-.3180	-.1930		
110.000									-.1220	
120.000		-.0360	-.0880	.4360	-.0810	-.3230	-.2650	-.2370	-.0030	
135.000				.3900	.0970	-.3620	-.1890	-.1430		
150.000		.0100	.1280	.1760	.0540	-.2130	-.1150	-.1630		
165.000		.0100		.2120	.2400	-.1030	-.0930	-.3270		
180.000		.0040	.1090	.2140						

MACH (3) = 1.102 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3220	.7760	.0000	-.4710	-.1750	-.0920			.0920		.0500	.0020	-.0540	-.0980	.0500
20.000			.0710	-.5060	-.1750	-.0800			.1010		.0360				
40.000			.2880	-.3680	-.2000	-.1390			.1220		.0060	-.0260	-.0600	-.0920	.0870
55.000			.3780	-.2460	-.1230	-.0210			.2160		.0710				
70.000			.3740	-.2450	-.1530	.1020			.2260		.0150	-.3720	-.3250	-.2320	-.1[illegible]
90.000		.9370	.2920	-.2730	-.1370	.1720			.2370		-.0480	-.4630	-.3700	-.2[illegible]	-.1[illegible]
120.000			.1680	-.2920	-.0990	.3450			.2650		-.2340	-.5340	-.4710	-.3[illegible]	-.2[illegible]

MACH (3) = 1.102 BETAT (3) = [illegible]

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5990					
150.000			.0540	-.3420	-.0270	.6110			.3490		-.5290	-.5010	-.4160	-.1940	-.0770
157.000								.6230							
162.000									.2220						
165.000											-.8090	-.4270	-.3930	-.1820	-.0710
169.000									.1210						
172.000							.8920								
180.000	1.3220	.6700	-.0490	-.2690	-.0620	.7500			.4100		-.8260	-.6180	-.3530	-.2140	-.0840

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9839	1.0015	1.0392
PHI										
.000	.1850							.0050		-.0960
40.000	.2050	.2780		.0950	-.0240	-.4530	-.1970			-.0990
70.000		-.0410	-.2850	-.2750	-.0640	-.1970	-.2880	-.1050		
90.000		-.0010	-.2270	-.0400	-.1900	-.1830	-.3260	-.3220		
105.000				.0470	-.1390	-.2050	-.3450	-.3050		
110.000									-.0580	
120.000		-.0150	-.0260	.3650	-.1230	-.3680	-.2680	-.2360	-.1210	
135.000				.4270	.1110	-.3600	-.2230	-.1580		
150.000		.0160	.1350	.2230	.1100	-.2170	-.1710	-.2080		
165.000		.0200		.2540	.2360	-.1110	-.1390	-.3440		
180.000		.0230	.0950	.2290						

MACH (3) = 1.102 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3190	.7740	.0000	-.4760	-.1850	-.0570			.0970		.0490	.0010	-.0530	-.0890	.0530
20.000			-.0280	-.4880	-.1390	-.0920			.1000		.0380				
40.000			.1250	-.5040	-.1380	-.1690			.1330		.0070	-.0540	-.1100	-.1440	.0410
55.000			.1870	-.4280	-.2580	-.1430			.1840		.0160				
70.000			.1760	-.4280	-.3160	-.0490			.1850		-.0550	-.4270	-.4000	-.3180	-.0500
90.000		.7770	.1200	-.4280	-.3140	.0510			.1630		-.1380	-.5140	-.4450	-.2950	-.0630
120.000			.0440	-.3900	-.2430	.2420			.1090		-.3370	-.5890	-.5150	-.1920	-.0480
142.000										-.7270					
150.000			.0230	-.3760	-.0990	.5360			.2600		-.6190	-.5650	-.3480	-.1630	-.0430
157.000								.5020							
162.000									.1260						
165.000											-.8750	-.5380	-.3090	-.1910	-.0510
169.000									.1160						
172.000							.8530								

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (2) = 1.102 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0030	075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3190	.6590	-.0560	-.2730	-.0590	.7450			.3990		-.8190	-.6290	-.3300	-.2100	-.0830

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1680							-.0050		-.0770
40.000	.1390	.1160		.0100	-.0950	-.1830	-.1370			-.1530
70.000		-.0890	-.2840	-.1680	-.0430	-.2090	-.3030	-.3170		
90.000		-.0440	-.1620	-.0710	-.1430	-.2050	-.3190	-.3180		
105.000				-.0370	-.1450	-.2050	-.3270	-.3320		
110.000									-.3890	
120.000		.0010	.1010	.1230	-.1470	-.3380	-.2700	-.2950	-.3480	
135.000				.4520	.1720	-.3620	-.2870	-.2600		
150.000		.0270	.1430	.3780	.2380	-.2160	-.2870	-.2860		
165.000		.0330		.3400	.3020	-.1180	-.2240	-.3840		
180.000		.0250	.1050	.2310						

MACH (3) = 1.107 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3050	.7830	.0000	-.6290	-.2140	-.1670			.1230		.0510	-.0240	-.0700	-.1200	.0590
20.000			-.0340	-.6160	-.1530	-.1990			.1150		.0230				
40.000			.0530	-.5660	-.2760	-.2060			.1190		-.0060	-.0830	-.1490	-.1900	.0250
55.000			.0910	-.5110	-.3620	-.1420			.1510		-.0110				
70.000			.0770	-.5110	-.4150	-.0500			.1450		-.0900	-.4550	-.4320	-.3510	-.0420
90.000		.6900	.0340	-.4970	-.3980	.0420			.1040		-.1880	-.5390	-.4800	-.2870	-.0530
120.000			-.0190	-.4410	-.3080	.2110			.0050		-.3910	-.6200	-.5310	-.1980	-.0420
142.000										-.7660					
150.000			-.0190	-.3950	-.1450	.4950			.2130		-.6950	-.5980	-.3360	-.2070	-.0500
157.000								.4350							
162.000									.0770						
165.000											-.8900	-.5900	-.3080	-.2080	-.0680
169.000									.1070						
172.000							.8190								
180.000	1.3050	.6530	-.0630	-.2750	-.0520	.7210			.3900		-.8180	-.5670	-.4390	-.2450	-.1500

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1930							-.0180		-.0660
40.000	.1310	-.0070		-.0320	-.1180	-.1970	-.1600			-.1720

MACH (3) = 1.102 BETAT (6) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0980	-.1890	-.0860	-.0500	-.2450	-.3290	-.3420		
90.000		-.0440	-.0620	-.0470	-.1320	-.2430	-.3500	-.3390		
105.000				-.0200	-.1430	-.2430	-.3550	-.3550		
110.000									-.4040	
120.000		.0190	.1080	.1060	-.2200	-.3850	-.2970	-.3240	-.3770	
135.000				.6150	.1620	-.4010	-.3310	-.3040		
150.000		.0300	.1770	.3990	.2370	-.2280	-.3170	-.3210		
165.000		.0390		.3820	.3200	-.1580	-.2580	-.4090		
180.000		.0190	.1040	.2080						

MACH (3) = 1.150 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2730	.6270	.0000	-.5850	-.3190	-.1210			.0030		.0120	-.0530	-.1140	-.1580	-.1110
20.000			.0030	-.6120	-.2950	-.1870			.1290		-.0030				
40.000			.0130	-.5920	-.4030	-.2140			.1100		-.0510	-.1290	-.2120	-.2530	.0440
55.000			.0070	-.5830	-.4580	-.1260			.1170		-.0500				
70.000			-.0360	-.5830	-.5070	-.0300			.1080		-.1320	-.4900	-.4730	-.3890	-.0120
90.000		.5980	-.0680	-.5770	-.4830	.0510			.0360		-.2380	-.5710	-.5210	-.2800	-.0230
120.000			-.0900	-.5060	-.3840	.1820			-.0600		-.4490	-.6590	-.5370	-.2150	-.0370
142.000										-.8080					
150.000			-.0710	-.4280	-.1850	.4380			.1530		-.7730	-.6520	-.3500	-.2420	-.0890
157.000								.3560							
162.000									.0210						
165.000											-.8990	-.6550	-.3520	-.2690	-.1130
168.540									.0880						
172.000							.7590								
180.000	1.2730	.6290	-.0060	-.2060	-.0250	.6760			.3620		-.8190	-.5590	-.5670	-.4280	-.2110

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1800							-.0040		-.0560
40.000	.1200	-.0340		-.1170	-.1650	-.1770	-.1700			-.2060
70.000		-.0720	-.1850	-.1040	-.0630	-.2580	-.3520	-.3660		
90.000		-.0140	-.0690	-.0510	-.1360	-.2560	-.3670	-.3630		
105.000				-.0260	-.1800	-.2560	-.3700	-.3770		
110.000									-.4180	
120.000		.0400	.1110	.1210	-.2520	-.4160	-.3170	-.3480	-.3920	
135.000				.6270	.1550	-.4310	-.3710	-.3360		
150.000		.0680	.1640	.3790	.1670	-.2440	-.3580	-.3880		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (3) = 1.100 BETAT (7) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
35.000		.0650		.3710	.2930	-.2190	-.3140	-.4310		
180.000		.0040	.0640	.1830						

MACH (3) = 1.106 BETAT (8) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5121
PHI															
.000	1.2360	.7730	.0000	-.5880	-.3200	-.1320			-.0670		-.0170	-.0240	-.1310	-.1720	-.1510
20.000			-.0440	-.6520	-.2700	-.2040			-.0360		-.0250				
40.000			-.0800	-.6440	-.4370	-.2570			.0570		-.0850	-.1640	-.2780	-.3170	.0100
55.000			-.0870	-.6550	-.5500	-.1230			.0520		-.0730				
70.000			-.1370	-.6610	-.5900	-.0120			.0100		-.1640	-.5130	-.4900	-.3970	-.0150
90.000		.4980	-.1580	-.6440	-.5610	.0590			-.0590		-.2890	-.5890	-.5390	-.2760	-.0240
120.000			-.1700	-.5530	-.4370	.1540			-.1170		-.5680	-.6950	-.4930	-.2300	-.0500
142.000										-.8310					
150.000			-.1300	-.4510	-.1730	.3680			.0880		-.8320	-.6960	-.4020	-.2710	-.1150
157.000								.2820							
162.000									-.0160						
165.000											-.8970	-.6870	-.4670	- 3320	-.1910
169.000									.0770						
172.000							.6880								
180.000	1.2360	.5730	-.1060	-.2990	-.0240	.6260			.3410		-.8440	-.5730	-.7400	-.6830	-.3000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							.0060		-.0580
40.000	.0960	.0350		-.1830	-.1840	-.1860	-.1770			-.2260
70.000		-.0740	-.2190	-.1270	-.0680	-.2620	-.3590	-.3330		
90.000		-.0170	-.1190	-.0620	-.1440	-.2620	-.3700	-.3360		
109.000				-.0260	-.2200	-.2810	-.3520	-.3450		
110.000									-.4240	
120.000		.0290	.0710	.1610	-.2730	-.4320	-.3110	-.3380	-.4010	
135.000				.6070	.1950	-.4010	-.3630	-.3270		
150.000		.0380	.0960	.2520	.0110	-.3130	-.4370	-.4530		
165.000		.0720		.2880	.2320	-.2720	-.3520	-.4440		
180.000		-.0490	.0300	.1530						

AMES 11-707 IA9 O2A + S3 + T5 ORBITER FUSELAGE (RBMB10)

MACH (4) = 1.246 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3270	1.0060	.0000	-.3030	-.1270	-.1510			-.1690		-.1880	-.1140	-.1010	-.0230	-.1530
20.000			.5070	-.1260	-.1170	-.1320			-.1810		-.1140				
40.000			.7340	.1230	.1170	-.0640			-.1680		-.0430	-.0360	-.0570	-.0090	.0610
55.000			.8100	.2540	.2450	.1380			.1170		.1590				
70.000			.7840	.2510	.2140	.1560			.2460		.1430	-.1960	-.1650	-.0620	-.0380
90.000		1.1880	.6520	.1450	.2240	.1630			.3420		.0730	-.2610	-.2450	-.1330	-.1040
120.000			.4060	.0090	.1750	.3030			.5310		-.0820	-.3330	-.3590	-.2130	-.1920
142.000										-.1480					
150.000			.2360	-.1440	.1210	.6470			.4850		-.3620	-.3500	-.3070	-.2460	-.1790
157.000								.7810							
162.000									.3940						
165.000											-.3620	-.2430	-.2810	-.2120	-.1350
169.000									.1690						
172.000							.9140								
180.000	1.3270	.3050	.0090	-.1740	.0640	.6090			.4310		-.6560	-.4600	-.4850	-.5330	-.2960

X/LB	.5873	.6626	.7380	.7869	.8283	.8840	.9262	.9639	1.0015	1.0392
PHI										
.000	.2420							.0810		-.0540
40.000	.3080	.4630		.2990	.1730	-.2340	-.4200			.0400
70.000		-.0580	-.2240	-.3100	-.0870	-.0810	-.1460	-.1730		
90.000		-.0710	-.1960	-.0070	-.1210	-.0960	-.1670	-.2010		
105.000				.1040	.0550	-.1130	-.1860	-.2300		
110.000									-.2420	
120.000		-.1530	-.1900	.5980	.1120	-.1700	-.2220	-.1940	-.1540	
135.000				.2540	.1120	-.3240	-.2090	-.0520		
150.000		-.0710	.0540	.1350	.0160	-.1580	.0060	-.0090		
165.000		-.0580		.1770	.2230	-.0070	.0430	-.1920		
180.000		-.1020	.0370	.1750						

MACH (4) = 1.248 BETAT (2) = -6.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3620	1.0170	.0000	-.3220	-.1710	-.1170			-.1180		-.1900	-.0820	.0670	-.0270	-.1440
20.000			.4850	-.1630	-.1300	-.1420			-.0950		-.0900				
40.000			.6780	.0550	.0830	-.1050			-.1790		.0210	.0510	-.0340	.0900	.0151
55.000			.7320	.1650	.1650	.0720			.0550		.0740				
70.000			.6970	.1560	.1480	.0720			.1970		.0370	-.2060	-.1770	-.1090	-.0780
90.000		1.1320	.5620	.0610	.1620	.0820			.2950		.0040	-.2970	-.2240	-.1610	-.1320
120.000			.3340	-.0530	.1360	.0120			.4320		-.1180	-.3840	-.3330	-.2330	-.1957

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (4) = 1.248 BETAT (2) = -6.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.2160					
150.000			.2050	-.1700	.0990	.6380			.4680		-.3660	-.4010	-.3270	-.2380	-.1400
157.000								.7480							
162.000									.3740						
165.000											-.4640	-.2950	-.3180	-.2080	-.1120
169.000									.2040						
172.000							.9290								
180.000	1.3620	.6190	.0070	-.1710	.0630	.6740			.4510		-.6470	-.4300	-.4480	-.4660	-.2350

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2210							.0690		-.0440
40.000	.2480	.4210		.2590	.1380	-.2510	-.2440			.0090
70.000		-.0930	-.2210	-.3030	-.0970	-.0920	-.1560	-.2030		
90.000		-.0880	-.1830	.0000	-.1230	-.1190	-.1870	-.2150		
105.000				.1080	.0240	-.1210	-.2060	-.2430		
110.000									-.2480	
120.000		-.1290	-.1430	.5510	.0840	-.1980	-.2310	-.1840	-.1670	
135.000				.3020	.1380	-.3040	-.1640	-.0560		
150.000		-.0720	.0780	.1270	.0540	-.1400	.0010	-.0300		
165.000		-.0670		.1610	.2600	.0020	.0310	-.2030		
180.000		-.1110	.0340	.1520						

MACH (4) = 1.250 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3870	.9880	.0000	-.4060	-.2410	-.0320			-.1410		-.2290	.1920	.1030	-.0370	-.1180
20.000			.3890	-.2590	-.2140	.0330			-.1090		-.1680				
40.000			.5890	-.0480	.0060	-.1420			-.0680		-.0210	-.0320	.0580	.0190	-.0090
55.000			.6450	.0550	.1010	-.0540			.0390		.0280				
70.000			.6160	.0330	.0610	-.0100			.1750		.0190	-.2130	-.2260	-.1130	-.1070
90.000		1.0960	.5000	-.0280	.0690	.0370			.2490		-.0220	-.3250	-.2740	-.1620	-.1510
120.000			.3150	-.1020	.0580	.3080			.3530		-.1550	-.3970	-.3320	-.2190	-.1710
142.000										-.3330					
150.000			.2120	-.1900	.0430	.6510			.4600		-.3820	-.4380	-.3360	-.2430	-.1170
157.000								.7580							
162.000									.3590						
165.000											-.5820	-.3280	-.3210	-.2160	-.0920
169.000									.2250						
172.000							.9650								

AMES 11-FOOT IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (4) = 1.250 BETAT (3) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3870	.6290	.0380	-.1600	.0020	.7100			.4760		-.6200	-.4440	-.3760	-.2940	-.2060

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2430							.0550		-.0730
40.000	.1340	.3940		.2180	.1350	-.2580	-.2090			-.0100
70.000		-.1180	-.2060	-.2870	-.0950	-.0960	-.1700	-.2230		
90.000		-.1010	-.1620	.0050	-.1160	-.1320	-.1990	-.2220		
105.000				.1100	-.0010	-.1500	-.2170	-.2460		
110.000									-.2480	
120.000		-.1100	-.0950	.4890	.0540	-.2210	-.2380	-.1740	-.1860	
135.000				.3600	.1610	-.2870	-.1450	-.0810		
150.000		-.0600	.0930	.1620	.0890	-.1320	-.0370	-.0730		
165.000		-.0520		.1870	.2520	-.0060	-.0090	-.2330		
180.000		-.0630	.0610	.2000						

MACH (4) = 1.249 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3740	.9320	.0000	-.1590	-.2060	-.0570			-.1480		-.2100	.1820	.0780	-.0170	-.0740
20.000			.2300	-.3170	-.1850	-.0810			-.1240		-.2010				
40.000			.4580	-.1790	-.0870	-.0920			-.0940		-.1400	.1270	.0370	-.0170	-.0270
55.000			.5310	-.0630	.0010	-.0440			.0170		-.0120				
70.000			.5150	-.0680	-.0290	-.0050			.0930		-.0120	-.2560	-.2130	-.1490	-.1330
90.000		1.0250	.4240	-.1020	-.0150	.0360			.1750		-.0600	-.3860	-.3010	-.1830	-.1510
120.000			.2760	-.1380	-.0030	.3440			.2940		-.2190	-.4290	-.3790	-.2080	-.1470
142.000										-.4280					
150.000			.1970	-.1980	.0240	.6600			.4530		-.4130	-.4720	-.3500	-.2110	-.0750
157.000								.7520							
162.000									.3400						
165.000											-.6300	-.3750	-.3380	-.2080	-.0610
169.000									.2440						
172.000							.9930								
180.000	1.3740	.7450	.0580	-.1450	.0010	.7720			.4920		-.6150	-.5240	-.3060	-.2640	-.0720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1890							.0420		-.0730
40.000	.1040	.3190		.1310	.0980	-.2830	-.2220			-.0830

AMES 11-707 IA9 O2A + 33 + T9 ORBITER FUSELAGE (RBMB10)

MACH (4) = 1.249 BETAT (4) = -2.020

SECTION (1.ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1160	-.1990	-.2650	-.1060	-.1110	-.1880	-.2370		
90.000		-.0860	-.1510	.0000	-.1200	-.1500	-.2170	-.2360		
105.000				.0950	-.0320	-.1520	-.2300	-.2500		
110.000									-.2560	
120.000		-.0810	-.0190	.4090	.0130	-.2520	-.2400	-.1700	-.2040	
135.000				.4100	.1880	-.2620	-.1410	-.1060		
150.000		-.0490	.1290	.2060	.1530	-.1150	-.0650	-.1230		
165.000		-.0430		.2370	.2550	.0030	-.0430	-.2640		
180.000		-.0500	.0870	.2330						

MACH (4) = 1.245 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3890	.9540	.0000	-.3150	-.2270	-.0550			-.1480		-.2190	.1980	.0840	-.0230	-.0760
20.000			.1610	-.3170	-.2070	-.0770			-.1650		-.1950				
40.000			.2890	-.3310	-.1710	-.0990			-.1690		-.1150	.0730	.0120	-.0870	-.0820
55.000			.3250	-.2610	-.1870	-.0640			-.0700		-.0840				
70.000			.3090	-.2610	-.2120	-.0140			.0400		-.1040	-.3640	-.2710	-.2140	-.1380
90.000		.8690	.2430	-.2610	-.1970	.0830			.1290		-.1400	-.4580	-.3110	-.2230	-.1320
120.000			.1540	-.2450	-.1330	.3420			.1930		-.3090	-.5180	-.4500	-.1730	-.0850
142.000										-.5100					
150.000			.1310	-.2400	-.0490	.6180			.3800		-.4730	-.5030	-.3910	-.1820	-.0450
157.000								.6340							
162.000									.2510						
165.000											-.6660	-.4510	-.3500	-.2230	-.0450
159.000									.2370						
172.000							.9420								
180.000	1.3890	.7190	.0460	-.1530	.0010	.7740			.4770		-.6120	-.5290	-.3300	-.2690	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2030							.0330		-.0780
40.000	.1340	.1290		.0340	-.0020	-.3320	-.1320			-.1400
70.000		-.1040	-.1920	-.1830	-.1020	-.1510	-.2270	-.2630		
90.000		-.0470	-.1200	-.0260	-.1600	-.1720	-.2410	-.2530		
105.000				.0040	-.0860	-.1740	-.2460	-.2670		
110.000									-.2860	
120.000		-.0280	.0660	.1690	-.0540	-.3070	-.2390	-.2080	-.2640	
135.000				.4590	.2350	-.2450	-.2000	-.1980		
150.000		-.0230	.1350	.3100	.2730	-.0940	-.1630	-.1960		

MACH (4) = 1.247 BETAT (5) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	9262	.9639	1.0015	1.0392
PHI										
165.000		-.0280		.3130	.3270	.0090	-.1030	-.3150		
180.000		-.0590	.0880	.2280						

MACH (4) = 1.247 BETAT (6) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0056	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3810	.9960	.0000	-.4250	-.2850	-.0310			-.1360		-.2160	.1920	.0890	-.0360	-.1220
20.000			.1670	-.4420	-.2920	-.0860			-.1560		-.2310				
40.000			.2310	-.3810	-.2770	-.1210			-.1710		-.1070	.0710	-.0050	-.0980	-.1200
55.000			.2410	-.3280	-.2740	-.0820			-.0670		-.0960				
70.000			.2100	-.3280	-.2960	-.0040			.0290		-.1480	-.3790	-.3040	-.2370	-.1240
90.000		.7840	.1570	-.3280	-.2720	.1350			.1030		-.2290	-.4820	-.3600	-.2240	-.1160
120.000			.0930	-.2930	-.1920	.3320			.1420		-.3390	-.5380	-.4690	-.1530	-.0760
142.000										-.5450					
150.000			.0927	-.2635	-.0770	.5650			.3310		-.5120	-.5020	-.3690	-.2090	-.0510
157.000								.5630							
162.000									.1970						
165.000											-.6690	-.4820	-.3150	-.2630	-.0630
169.000									.2170						
172.000							.9010								
180.000	1.3010	.7800	.0310	-.1620	.0000	.7400			.4530		-.6060	-.4680	-.3700	-.2840	-.1280

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2500							.0310		-.0610
40.000	.1620	.0500		-.0060	-.0190	-.2150	-.1470			-.1590
70.000		-.0830	-.1900	-.1760	-.0970	-.1630	-.1940	-.2170		
90.000		-.0420	-.1100	-.0410	-.1610	-.1680	-.2130	-.2190		
105.000				.0090	-.1210	-.1980	-.2110	-.2350		
110.000									-.2800	
120.000		-.0200	.0520	.1600	-.0980	-.3200	-.2220	-.1920	-.2590	
135.000				.5630	.2360	-.2730	-.2020	-.2130		
150.000		-.0260	.1230	.3420	.2950	-.1080	-.1770	-.1920		
165.000		-.0410		.3550	.3440	-.0230	-.1270	-.3290		
180.000		-.0760	.0580	.1920						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB10)

MACH (4) = 1.246 BETAT (7) = 6.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3570	.9780	.0000	-.3690	-.1800	-.0600			-.1130		-.1720	-.0790	.0530	-.0210	-.1440
20.000			.2100	-.3960	-.2900	-.0280			-.1640		-.2430				
40.000			.2070	-.3740	-.3210	-.0650			-.1910		-.1200	.0510	-.0730	-.1320	-.1680
55.000			.1800	-.3740	-.3330	-.0700			-.0630		-.1190				
70.000			.1310	-.3870	-.3710	-.0070			.0340		-.1860	-.4040	-.3240	-.2640	-.1140
90.000		.7060	.0750	-.3870	-.3410	.1330			.0920		-.2530	-.5080	-.4180	-.2100	-.1010
120.000			.0200	-.3420	-.2530	.2930			.0720		-.3610	-.5570	-.4950	-.1560	-.0710
142.000										-.5820					
150.000			.0190	-.2880	-.1110	.4870			.2660		-.5730	-.5050	-.3370	-.2610	-.0640
157.000								.4790							
162.000									.1430						
165.000											-.6720	-.5110	-.3060	-.3230	-.0980
169.000									.1990						
172.000							.8360								
180.000	1.3570	.6770	-.0010	-.1760	.0180	.6750			.4300		-.6100	-.4280	-.4330	-.4330	-.2700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2370							.0430		-.0500
40.000	.1590	-.0110		-.0160	-.1070	-.1630	-.1390			-.1720
70.000		-.0650	-.1440	-.1280	-.0530	-.1570	-.2260	-.2750		
90.000		-.0150	-.0550	-.0080	-.1260	-.1600	-.2540	-.2600		
105.000				.0400	-.1100	-.1650	-.2490	-.2720		
110.000									-.3010	
120.000		.0110	.1170	.2320	-.1080	-.3490	-.2390	-.2280	-.2860	
135.000				.6050	.2450	-.2820	-.2390	-.2540		
150.000		-.0180	.1700	.3590	.2460	-.1040	-.2010	-.2450		
165.000		-.0360		.3720	.3310	-.0450	-.1520	-.3560		
180.000		-.1220	.0270	.1570						

MACH (4) = 1.247 BETAT (8) = 9.220

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3290	.9400	.0000	-.3580	-.1720	-.1560			-.1270		-.1850	-.1110	-.0160	-.0170	-.1610
20.000			.1490	-.4140	-.3160	-.1550			-.1600		-.2720				
40.000			.1120	-.4170	-.3480	-.1690			-.2050		-.1700	-.0500	-.1090	-.1770	-.1
55.000			.0820	-.4380	-.4140	-.1160			-.0570		-.1480				
70.000			.0320	-.4520	-.4280	-.0370			.0320		-.2060	-.4450	-.3790	-.3330	-.1
90.000		.6120	-.0150	-.4520	-.4060	.1020			.0650		-.2710	-.5380	-.4640	-.3120	-.
12.			-.0480	-.3870	-.3210	.2550			-.0080		-.3940	-.5900	-.5040	-.3280	-.1

[illegible]

[illegible] 1.247 BETAT (0) = 0.000

[illegible] (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/B	.0000	.0075	.0188	.0338	.0502	.1335	.1506	.1561	.1732	.1958	.2259	.2711	.3000	.3913	.5120
PHI															
140.000										-.6110					
150.000			-.0280	-.3080	-.1490	.4010			.2010		-.6270	-.5000	-.3470	-.3150	-.0870
157.000								.4220							
162.000									.1120						
165.000											-.6760	-.5490	-.3590	-.3760	-.1660
169.000									.1870						
172.000							.7720								
180.000	1.0240	.6630	-.0070	-.1890	.0230	.6060			.4080		-.6460	-.4440	-.5000	-.5370	-.3190
X/B	.0147	.0626	.7380	.7859	.9283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2870							.0550		-.0550					
40.000	.1 [illegible]	-.0970		-.1310	-.1500	-.1530	-.1370			-.2250					
70.000		[illegible]	-.1900	-.1420	-.0540	-.1640	-.2490	-.2910							
90.000		[illegible]	-.1140	-.0190	-.1590	-.1770	-.2640	-.2750							
105.000				.0340	-.1350	-.1990	-.2590	-.2970							
110.000									-.3230						
120.000		[illegible]	.0090	.2630	-.1340	-.3810	-.2770	-.2460	-.3150						
130.000				.6170	.2700	-.2870	-.2510	-.2960							
150.000		[illegible]	.0470	.2430	.0810	-.2120	-.2840	-.3330							
165.000		[illegible]		.2880	.3000	-.1090	-.2020	-.3790							
180.000		[illegible]	.0260	.1640											

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB11) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

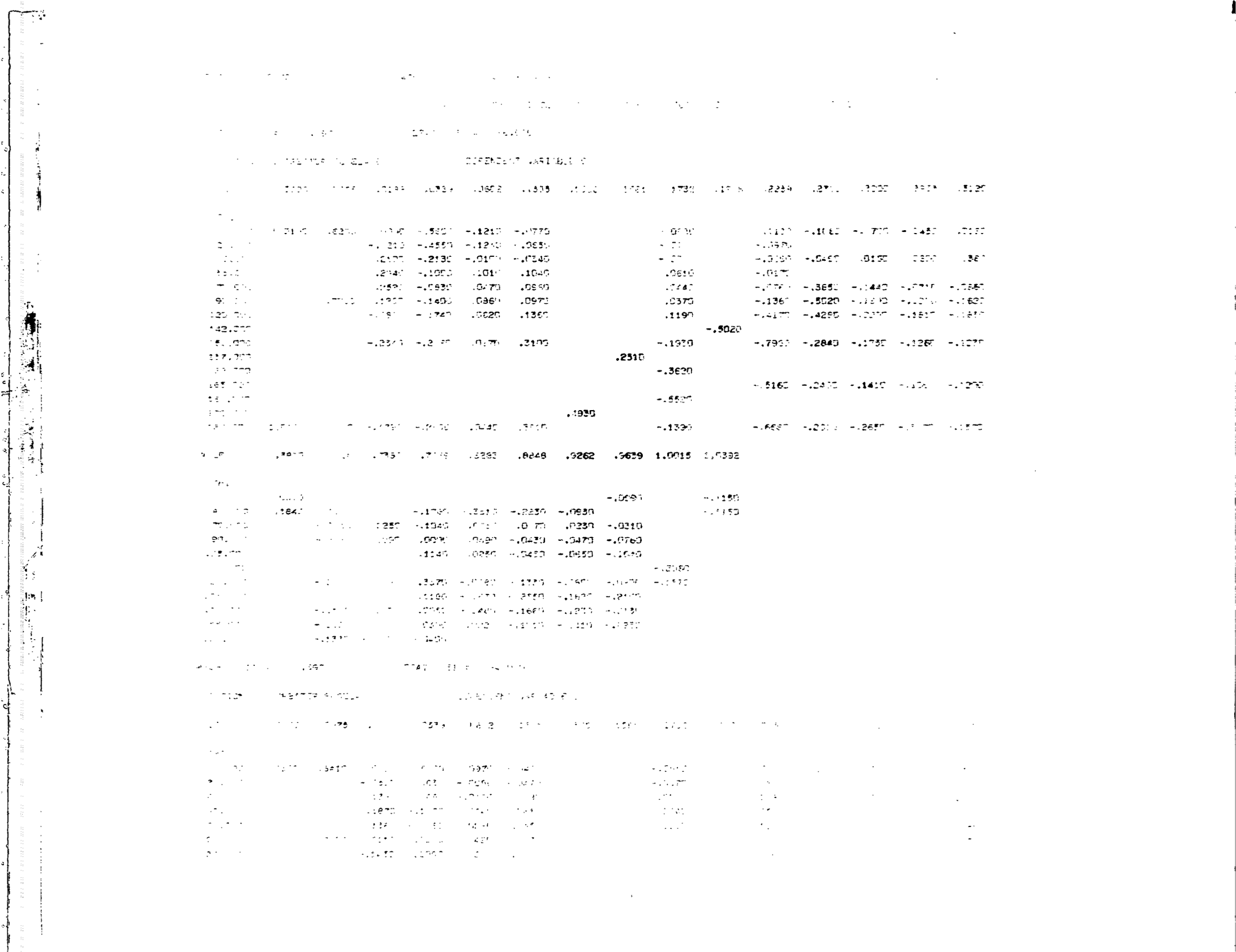
ALPHAT = 8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
BODFLR = .000

MACH (1) = .599 BETAT (1) = -8.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
.000	.9600	.5990	.0000	-.5910	-.1660	-.1170			-.1350		-.1510	-.1480	-.1170	-.0870	-.0280
20.000			-.0250	-.4790	-.1710	-.1010			-.1020		-.1300				
40.000			.2550	-.1810	-.0200	-.0540			-.0550		-.0790	-.0520	.0090	.0720	.1530
55.000			.3630	-.0210	.1390	.1470			.1040		.0200				
70.300			.3460	-.0020	.1050	.1360			.0860		-.0410	-.3550	-.1270	-.0560	-.0770
90.000		.8140	.2190	-.0760	.1290	.1330			.0770		-.1090	-.4840	-.1770	-.1190	-.1620
120.000			-.0160	-.1250	.0840	.1570			.1700		-.4090	-.4430	-.2470	-.2050	-.2160
142.000										-.4710					
150.000			-.2090	-.2100	.0070	.3070			-.1670		-.8360	-.2990	-.1850	-.1420	-.1440
157.000								.2650							
162.000									-.3190						
165.000											-.5230	-.2470	-.1480	-.1260	-.1180
169.000									-.5530						
172.000							.4550								
180.000	.9600	.1620	-.4920	-.2900	-.0730	.3390			-.1660		-.7050	-.3120	-.3610	-.3980	-.2030

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0520							-.1140		-.0690
40.000	.2110	.2080		-.1770	-.3670	-.2480	-.1130			-.1020
70.000		-.3070	-.2080	-.0670	.1000	.0500	.0450	-.0170		
90.000		-.2570	-.1160	.0390	.0910	-.0010	-.0230	-.0630		
105.000				.1700	.0760	-.0010	-.0410	-.0900		
110.000									-.1960	
120.000		-.2380	-.0080	.3990	-.0270	-.1030	-.0660	-.0780	-.1440	
135.000				.0430	-.2020	-.2720	-.1820	-.2200		
150.000		-.1370	-.0150	-.0380	-.2830	-.1430	-.1000	-.1980		
165.000		-.1240		.0190	.0100	-.0610	-.0840	-.2960		
180.000		-.1650	-.0950	-.0800						



AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RB-B11)

MACH (1) = .597 BETAT (3) = -4.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5280					
150.000			-.2540	-.2280	.0250	.3020			-.2310		-.7490	-.2670	-.1590	-.1060	-.1040
157.000								.2190							
162.000									-.3950						
165.000											-.5170	-.2250	-.1300	-.0870	-.1050
169.000									-.5450						
172.000							.5030								
180.000	1.0500	.2125	-.4530	-.2360	-.0120	.4110			-.1110		-.6280	-.2200	-.2110	-.1440	-.1380

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1030							-.0940		-.0660
40.000	.1610	.1500		-.1740	-.3140	-.1880	-.0620			-.1190
70.000		-.3210	-.2500	-.1330	.0340	-.0120	.0010	-.0410		
90.000		-.3590	-.1490	-.0320	.0110	-.0730	-.0600	-.0840		
105.000				.0600	-.0230	-.0750	-.0830	-.1170		
110.000									-.2070	
120.000		-.1860	.0160	.2870	-.1520	-.1570	-.0980	-.0980	-.1620	
135.000				.1840	-.1480	-.2460	-.1610	-.1960		
150.000		-.1040	.0160	.0470	-.2080	-.1930	-.1530	-.2220		
165.000		-.0980		.0560	.0300	-.1420	-.1760	-.2810		
180.000		-.0940	-.0130	.0150						

MACH (1) = .599 BETAT (4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0520	.6470	.0000	-.5300	-.0790	-.0270			-.0430		-.0610	-.0500	-.0180	.0220	.0760
20.000			-.0840	-.4580	-.0800	-.0270			-.0340		-.0680				
40.000			.0500	-.3140	-.0370	-.0090			-.0200		-.0860	-.0720	-.0040	.0450	.1060
55.000			.0760	-.2610	.0030	.0180			-.0160		-.0880				
70.000			.0180	-.2610	-.0550	.0160			-.0270		-.1430	-.4320	-.1660	-.0900	-.1020
90.000		.6150	-.0960	-.3130	-.0030	.0260			-.0370		-.1900	-.5240	-.1820	-.1140	-.1430
120.000			-.2190	-.2640	.0140	.0830			-.0110		-.4090	-.3890	-.1810	-.1280	-.1290
142.000										-.5590					
150.000			-.2840	-.2480	.0220	.2870			-.2660		-.6980	-.2530	-.1350	-.0910	-.0820
157.000								.1810							
162.000									-.4450						
165.000											-.5280	-.2240	-.1100	-.0710	-.0790
169.000									-.5520						
172.000							.5090								

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0178	.0488	.0839	.0602	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5105
PHI															
.000	1.0480	.6550	.0140	-.5210	-.0770	-.0280			-.0350		-.0550	-.0450	-.0160	.0320	.0810
25.000			.1330	-.4760	-.0780	-.0320			-.0320		-.0590				
40.000			.1440	-.3790	-.0590	-.0100			-.0250		-.1020	-.0360	-.0230	.0230	.0460
55.000			-.1470	-.3600	-.0520	-.0290			-.0530		-.1190				
70.000			.1130	-.3630	-.1080	-.0210			-.0610		-.1760	-.4590	-.1810	-.1070	.1040
90.000		.9210	.1260	-.3500	-.0470	-.0150			-.0740		-.2170	-.3680	-.1950	-.1130	.1350
125.000			-.3150	-.3220	-.0220	.0460			-.0840		-.4120	.7100	-.1670	-.0130	-.1380
142.000										-.5650					
150.000			-.1890	-.2740	.0370	.2540			-.3120		-.6600	-.2490	-.1260	-.0310	.0210
157.000								.1210							
162.000									-.5100						
165.000											-.5520	-.2190	-.1160	-.0740	-.1890
169.000									-.5700						
172.000							.4960								
180.000	1.0480	.2620	-.4220	-.2050	.0150	.4360			-.0870		-.7040	-.4140	-.2440	-.1510	-.2180
X/LB	.0373	.0626	.0780	.0965	.0283	.0848	.0262	.0639	1.0015	1.0392					
PHI															
.000	.1320							-.0300		-.0410					
40.000	.1160	.0710		-.1610	-.2330	-.1460	-.0640			-.1250					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMB11)

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = .600 BETAT (5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.3240	-.2880	-.1940	-.0330	-.0620	-.0380	-.0710		
90.000		-.2480	-.1740	-.1120	-.0870	-.1180	-.0950	-.1070		
105.000				-.0710	-.1180	-.1190	-.1220	-.1450		
110.000									-.2360	
120.000		-.1480	.0210	.1220	-.2910	-.2060	-.1240	-.1230	-.1800	
135.000				.2650	-.1300	-.2620	-.1730	-.1930		
150.000		-.0860	.0440	.1360	-.1070	-.2570	-.2230	-.2600		
165.000		-.0720		.0970	.0450	-.2330	-.2360	-.2790		
180.000		-.0620	.0100	.0100						

MACH (1) = .598 BETAT (6) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0600	.6360	.0000	-.5340	-.0800	-.0330			-.0420		-.0560	-.0480	-.0130	.0220	.0780
20.000			-.1820	-.4960	-.0840	-.0360			-.0440		-.0760				
40.000			-.1440	-.4310	-.0890	-.0320			-.0480		-.1340	-.1200	-.0390	.0030	.0650
55.000			-.1650	-.4490	-.1010	-.0660			-.0920		-.1520				
70.000			-.2460	-.4510	-.1550	-.0590			-.1010		-.2030	-.4650	-.1800	-.1080	-.0990
90.000		.4160	-.3540	-.4780	-.0910	-.0510			-.1170		-.2350	-.5330	-.1740	-.1050	-.1230
120.000			-.3940	-.3900	-.0610	.0090			-.1600		-.4090	-.3580	-.1510	-.0930	-.0860
142.000										-.6190					
150.000			-.3750	-.3100	-.0210	.2160			-.3600		-.6150	-.2290	-.1190	-.0710	-.0610
157.000								.0540							
162.000									-.5850						
165.000											-.5370	-.2020	-.1130	-.0700	-.0630
169.000									-.5860						
172.000							.4720								
180.000	1.0800	.2430	-.4270	-.2160	.0050	.4290			-.0990		-.6050	-.1840	-.1530	-.0820	-.0820

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1250							-.0840		-.0800
40.000	.0860	.0240		-.1530	-.2020	-.1320	-.0690			-.1360
70.000		-.3210	-.2860	-.2190	-.0710	-.0920	-.0620	-.0890		
90.000		-.2360	-.1740	-.1540	-.1400	-.1440	-.1150	-.1260		
105.000				-.1490	-.1600	-.1470	-.1400	-.1580		
110.000									-.2510	
120.000		-.1320	.0130	-.0150	-.3540	-.2360	-.1390	-.1420	-.1950	
135.000				.2690	-.1310	-.2860	-.1920	-.2060		
150.000		-.0780	.0420	.2000	-.0940	-.2960	-.2530	-.2730		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (1) = .398 BETAT (6) = 2.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0680		.1180	.0670	-.2830	-.2810	-.2720		
180.000		-.0740	.0050	.0170						

MACH (1) = .597 BETAT (7) = 3.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.0580	.6420	.0010	-.5360	-.0790	-.0410			-.0470		-.0680	-.0570	-.0250	.0200	.0640
20.000			-.2010	-.5080	-.0850	-.0440			-.0490		-.0790				
40.000			-.1870	-.4560	-.0970	-.0450			-.0610		-.1410	-.1390	-.0530	-.0050	.0570
55.000			-.2260	-.4870	-.1250	-.0870			-.1040		-.1580				
70.000			-.3080	-.4870	-.1760	-.0730			-.1110		-.2040	-.4730	-.1790	-.1100	-.0970
90.000		.3700	-.4100	-.5140	-.1140	-.0640			-.1290		-.2510	-.5350	-.1710	-.1030	-.1130
120.000			-.4500	-.4180	-.0780	-.0170			-.1900		-.4130	-.3540	-.1480	-.0900	-.0770
142.000										-.6420					
150.000			-.4070	-.3360	-.0360	.1950			-.3800		-.5980	-.2260	-.1200	-.0670	-.0590
157.000								.0170							
162.000									-.6240						
165.000											-.5420	-.1950	-.1100	-.0660	-.0680
169.000									-.6020						
172.000							.4560								
180.000	1.0580	.2330	-.4310	-.2250	-.0020	.4220			-.1030		-.6170	-.2020	-.1600	-.0940	-.1120

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1210							-.0850		-.1210
40.000	.0790	.0080		-.1460	-.1650	-.1140	-.0540			-.1490
70.000		-.3200	-.2970	-.2350	-.0870	-.1110	-.0760	-.0930		
90.000		-.2300	-.1790	-.1730	-.1530	-.1550	-.1220	-.1340		
105.000				-.1700	-.1870	-.1550	-.1420	-.1660		
110.000									-.2550	
120.000		-.1310	.0020	-.0650	-.3840	-.2510	-.1530	-.1490	-.1970	
139.000				.2730	-.1370	-.3020	-.2040	-.2160		
150.000		-.0740	.0480	.2100	-.0740	-.3180	-.2630	-.2790		
165.000		-.0670		.1210	.0630	-.3170	-.3010	-.2780		
180.000		-.0800	-.0010	.0200						

DATE 13 SEP 7? TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB11)

MACH (1) = .600 BETAT (8) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0520	.6230	.0000	-.5450	-.0970	-.0530			-.0520		-.0750	-.0670	-.0380	.0060	.0490
20.000			-.2450	-.5290	-.1010	-.0580			-.0550		-.0980				
40.000			-.2520	-.4980	-.1220	-.0600			-.0770		-.1670	-.1570	-.0780	-.0260	.0410
55.000			-.3030	-.5320	-.1510	-.1060			-.1220		-.1750				
70.000			-.3770	-.5330	-.1960	-.0930			-.1280		-.2270	-.4730	-.1900	-.1110	-.1040
90.000		.3170	-.4710	-.5610	-.1330	-.0890			-.1450		-.2620	-.5340	-.1790	-.1000	-.1170
120.000			-.4900	-.4610	-.1020	-.0420			-.2340		-.4080	-.3560	-.1450	-.0810	-.0810
142.000										-.7260					
150.000			-.4310	-.3620	-.0570	.1640			-.4040		-.5870	-.2260	-.1160	-.0720	-.0590
157.000								-.0260							
162.000									-.6640						
165.000											-.5460	-.2000	-.1130	-.0690	-.0700
169.000									-.6180						
172.000							.4310								
180.000	1.0520	.2320	-.4370	-.2380	-.0150	.4030			-.1140		-.6390	-.2120	-.1820	-.1380	-.1370

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1070							-.0940		-.1520
40.000	.0650	-.0090		-.1330	-.1570	-.1110	-.0450			-.1680
70.000		-.3220	-.3050	-.2440	-.1090	-.1210	-.0820	-.1010		
90.000		-.2340	-.1890	-.1970	-.1760	-.1700	-.1360	-.1420		
105.000				-.1900	-.2170	-.1670	-.1600	-.1760		
110.000									-.2600	
120.000		-.1340	-.0140	-.0970	-.4290	-.2630	-.1700	-.1560	-.2090	
135.000				.3000	-.1610	-.3320	-.2220	-.2160		
150.000		-.0800	.0370	.2040	-.0880	-.3540	-.2930	-.2940		
165.000		-.0770		.1230	.0560	-.3560	-.3350	-.2880		
180.000		-.0960	-.0180	.0060						

MACH (1) = .801 BETAT (9) = 6.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0270	.5900	.0000	-.5540	-.1190	-.0800			-.0810		-.1120	-.0890	-.0670	-.0140	.0110
20.000			-.2980	-.5550	-.1250	-.0880			-.0840		-.1330				
40.000			-.3520	-.5560	-.1660	-.1010			-.1170		-.2180	-.1950	-.1080	-.0510	.0160
55.000			-.4260	-.6220	-.1970	-.1510			-.1540		-.2000				
70.000			-.5050	-.6360	-.2350	-.1210			-.1520		-.2400	-.4760	-.1840	-.1150	-.1000
90.000		.2000	-.6010	-.6520	-.1660	-.1180			-.1770		-.2710	-.5210	-.1640	-.0925	-.1050
120.000			-.5820	-.5340	-.1450	-.0950			-.3050		-.3980	-.3390	-.1310	-.0790	-.0740

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBHS11)

MACH (1) = .301 BETAT (9) = 6.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.9050					
142.000									-.4590		-.5470	-.2270	-.1150	-.0760	-.0660
150.000			-.4890	-.4140	-.0940	.1010		-.1230							
157.000									-.7500						
162.000											-.5520	-.1990	-.1190	-.0810	-.0340
165.000									-.6550						
169.000							.3810								
172.000									-.1420		-.6640	-.2480	-.2240	-.2870	-.1620
180.000	1.0270	.2120	-.4530	-.2600	-.0170	.3690									

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI								-.1030		-.1350
.000	.0850									-.2070
40.000	.0510	-.0210		-.1220	-.1520	-.1240	-.0790			
70.000		-.3230	-.3200	-.2640	-.1400	-.1410	-.1100	-.1180		
90.000		-.2300	-.2140	-.2290	-.2060	-.1860	-.1550	-.1520		
105.000				-.2180	-.2550	-.2110	-.1830	-.1870		
110.000									-.2760	
120.000		-.1410	-.0270	-.1450	-.5330	-.2950	-.1880	-.1740	-.2160	
135.000				.3560	-.1770	-.3770	-.2560	-.2300		
150.000		-.0970	.0260	.1740	-.1170	-.4120	-.3400	-.3190		
165.000		-.1020		.1180	.0240	-.4520	-.3940	-.2990		
180.000		-.1410	-.0530	-.0520						

MACH (1) = .600 BETAT (10) = 8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI									-.1250		-.1500	-.1340	-.1110	-.0510	-.0300
.000	.9790	.5620	.0000	-.6040	-.1720	-.1230			-.1370		-.1750				
20.000			-.3850	-.6060	-.1790	-.1370			-.1840		-.2920	-.2470	-.1710	-.0690	-.0080
40.000			-.4820	-.6510	-.2290	-.1610			-.1900		-.2350				
55.000			-.5720	-.7270	-.2510	-.1810			-.1850		-.2610	-.4830	-.1960	-.1140	-.1050
70.000			-.6620	-.7520	-.2820	-.1510			-.2140		-.2930	-.5120	-.1600	-.0880	-.1060
90.000		.0670	-.7540	-.7630	-.2130	-.1600			-.3880		-.4080	-.3260	-.1310	-.0710	-.0750
120.000			-.7020	-.6370	-.2030	-.1480				-1.1310					
142.000									-.5310		-.5410	-.2380	-.1340	-.0850	-.0830
150.000			-.5640	-.4670	-.1620	.0250		-.2500							
157.000									-.8670						
162.000											-.5880	-.2260	-.1540	-.1220	-.1320
169.000									-.6920						
169.000							.2980								
172.000															

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB11)

MACH (1) = .600 BETAT (10) = 8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	.9790	.1870	-.4860	-.2930	-.0870	.3020			-.1870		-.7370	-.2900	-.3530	-.4250	-.2300
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0570							-.1220		-.0920					
40.000	.0250	-.0280		-.1620	-.1690	-.1160	-.1110			-.2100					
70.000		-.3280	-.3370	-.3010	-.1740	-.1790	-.1380	-.1600							
90.000		-.2420	-.2400	-.2720	-.2280	-.2250	-.1880	-.1880							
105.000				-.2440	-.2920	-.2360	-.2140	-.2210							
110.000									-.2540						
120.000		-.1540	-.0600	-.1890	-.6020	-.3420	-.2210	-.2050	-.2390						
135.000				.3340	-.1740	-.4240	-.2940	-.2600							
150.000		-.1180	-.0320	.0890	-.2520	-.5440	-.4710	-.4030							
165.000		-.1290		.0560	-.0580	-.5760	-.4650	-.3240							
180.000		-.2010	-.1160	-.0950											

MACH (2) = .900 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1450	.7670	.0000	-.7930	-.2480	-.1050			-.1210		-.1600	-.1950	-.1390	-.0720	.0400
20.000			.2000	-.5550	-.2400	-.1070			-.0960		-.1320				
40.000			.4120	-.2370	-.0650	-.0890			-.0680		-.1040	-.1400	-.0120	.0750	.1910
55.000			.4760	-.0970	.0910	.1550			.1390		.0470				
70.000			.4250	-.0920	.0470	.1730			.1450		.0020	-.5760	-.2210	-.0200	.0180
90.000		.9420	.2820	-.1960	.1040	.1980			.1650		-.0540	-.7260	-.2870	-.0720	-.0680
120.000			.0430	-.2770	.0700	.2670			.3130		-.3380	-.8770	-.3270	-.1540	-.1370
142.000										-.5120					
150.000			-.1590	-.4920	-.0030	.4600			.1450		-.7930	-.7680	-.2780	-.0750	-.0720
157.000								.4930							
162.000									.0210						
165.000											-.6250	-.5880	-.1930	-.0460	-.0510
169.000									-.2480						
172.000							.6580								
180.000	1.1450	.3620	-.4350	-.5990	-.1130	.4920			.1080		-1.0680	-.5840	-.4480	-.2350	-.1320
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1270							-.0780		-.0630					
40.000	.2750	.3360		.0410	-.1960	-.2670	-.1890			-.1300					

DATE 15 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (2) = .900 BETAT (1) = -6.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.3250	-.5480	-.0220	.1140	-.0490	-.0170	-.0320		
90.000		-.3050	-.4550	.0990	.0710	-.0880	-.0510	-.0350		
105.000				.1540	.0790	-.1260	-.0750	-.0640		
110.000									-.2430	
120.000		-.3390	-.0350	.4750	-.0260	-.2400	-.0600	-.0530	-.1690	
135.000				.1750	-.1170	-.1910	-.1190	-.1510		
150.000		-.1920	.0220	-.0070	-.2700	-.1070	-.0360	-.1730		
165.000		-.1630		.0570	.0390	-.0580	-.0170	-.3160		
180.000		-.1740	-.0400	-.0140						

MACH (2) = .903 BETAT (2) = -6.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5126
PHI															
.000	1.1710	.7960	.0000	-.8100	-.2060	-.0720			-.0790		-.1250	-.1550	-.1020	-.0250	.0710
20.000			.1740	-.6070	-.2060	-.0730			-.0640		-.1140				
40.000			.3480	-.3640	-.0990	-.0490			-.0420		-.1020	-.1510	-.0260	.0780	.1810
55.000			.3870	-.2350	.0460	.1220			.1000		.0000				
70.000			.3380	-.2370	-.0020	.1380			.1050		-.0500	-.6070	-.3320	-.0260	.0040
90.000		.8650	.1900	-.3450	.0620	.1640			.1270		-.1030	-.7460	-.3570	-.0670	-.0710
120.000			-.0370	-.4000	.0580	.2530			.2520		-.3700	-.8870	-.3560	-.1110	-.1120
142.000										-.6200					
150.000			-.1910	-.5550	.0270	.4660			.1360		-.7930	-.7590	-.2610	-.0520	-.0480
157.000								.4850							
162.000									.0060						
165.000											-.7530	-.5790	-.1530	-.0170	-.0420
169.000									-.2240						
172.000							.6850								
180.000	1.1710	.3530	-.4400	-.5790	-.0380	.5370			.1530		-1.1320	-.5030	-.3520	-.1450	-.0870

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1470							-.0940		-.0510
40.000	.2520	.2350		-.0010	-.2350	-.2420	-.1560			-.124[illegible]
70.000		-.3270	-.5380	-.0540	.0850	-.0630	-.0230	-.0270		
90.000		-.2960	-.4380	.0530	.0310	-.1090	-.0650	-.0930		
109.000				.1070	.0330	-.1580	-.0870	-.0660		
110.000									-.2380	
120.000		-.3020	.0400	.4140	-.0960	-.2790	-.0720	-.0580	-.1790	
135.000				.2340	-.0940	-.1910	-.1140	-.1440		
90.000		-.1720	.0240	.0280	-.2260	-.1370	-.0630	-.1840		

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB11)

MACH (2) = .903 BETAT (2) = -6.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.1510		.0810	.0410	-.1040	-.0700	-.3160		
180.000		-.1440	-.0320	.0140						

MACH (2) = .933 BETAT (3) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1900	.8110	.0000	-.8310	-.1010	-.0430			-.0580		-.1060	-.1320	-.0850	.0130	.1050
20.000			.1290	-.6660	-.1590	-.0460			-.0460		-.1060				
40.000			.2630	-.4860	-.1160	-.0310			-.0340		-.1120	-.1670	-.0600	.0700	.1570
55.000			.2890	-.4160	-.0160	.0870			.0630		-.0390				
70.000			.2300	-.4260	-.0470	.1050			.0680		-.0910	-.6350	-.3860	-.0230	-.0080
90.000		.8200	.0900	-.5150	.0310	.1360			.0900		-.1480	-.7680	-.3380	-.0510	-.0680
120.000			-.1060	-.5230	.0530	.2350			.1840		-.4050	-.8970	-.3680	-.0710	-.0800
142.000										-.7160					
150.000			-.2230	-.5770	.0760	.4600			.1210		-.8150	-.7520	-.2250	-.0210	-.0330
157.000								.4640							
162.000									-.0160						
165.000											-.8940	-.5450	-.1520	.0130	-.0250
169.000									-.1990						
172.000							.6920								
180.000	1.1900	.3770	-.4310	-.5810	.0270	.5630			.1530		-1.2180	-.4980	-.3110	-.0680	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							-.0880		-.0390
40.000	.2220	.2500		-.0350	-.2370	-.2010	-.1280			-.1180
70.000		-.3280	-.5220	-.0910	.0520	-.0870	-.0320	-.0300		
90.000		-.2880	-.3980	-.0010	-.0100	-.1500	-.0760	-.0410		
105.000				.0420	-.0190	-.2130	-.0990	-.0800		
110.000									-.2450	
120.000		-.2620	-.0370	.3520	-.1730	-.3060	-.0860	-.0700	-.1890	
135.000				.2910	-.0840	-.2110	-.1190	-.1420		
150.000		-.1500	.0280	.0650	-.1770	-.1800	-.1040	-.2020		
165.000		-.1320		.1050	.0420	-.1370	-.1300	-.3080		
180.000		-.1170	-.0150	.0320						

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (2) = .901 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1970	.8160	.0000	-.8460	-.0880	-.0340			-.0430		-.0930	-.1120	-.0590	.0390	.1240
20.000			.0930	-.7070	-.0760	-.0380			-.0340		-.1010				
40.000			.1880	-.5650	-.0370	-.0210			-.0230		-.1220	-.1820	-.0740	.0630	.1450
55.000			.1970	-.5420	-.0080	.0460			.0210		-.0890				
70.000			.1300	-.5821	-.0540	.0650			.0270		-.1460	-.6700	-.3550	-.0320	-.0150
90.000		.7470	-.0080	-.6450	.0400	.1000			.0440		-.2040	-.8000	-.2490	-.0460	-.0620
120.000			-.1730	-.6390	.0630	.2050			.1070		-.4590	-.9210	-.3540	-.0330	-.0520
142.000										-.8110					
150.000			-.2630	-.6010	.0820	.4380			.0900		-.8660	-.7740	-.1930	.0080	-.0210
157.000								.4240							
162.000									-.0580						
165.000											-1.0080	-.5430	-.1360	.0290	-.0110
169.000									-.1890						
172.000							.6910								
180.000	1.1970	.3840	-.4300	-.5810	.0670	.5810			.1590		-1.2940	-.4890	-.2540	-.0570	-.0280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							-.0750		-.0570
50.000	.1990	.2090		-.0680	-.2520	-.1910	-.1210			-.1380
70.000		-.3540	-.4990	-.1510	.0150	-.1100	-.0420	-.0340		
90.000		-.2800	-.3310	-.0620	-.0610	-.1720	-.0880	-.0510		
105.000				-.0340	-.0880	-.2350	-.1120	-.0870		
110.000									-.2520	
120.000		-.2240	-.0280	.2580	-.2780	-.3160	-.1030	-.0850	-.2000	
135.000				.3210	-.0880	-.2480	-.1330	-.1500		
150.000		-.1300	.0320	.1090	-.1190	-.2410	-.1510	-.2320		
165.000		-.1140		.1190	.0440	-.2160	-.1790	-.3070		
180.000		-.1010	-.0070	.0380						

MACH (2) = .901 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2000	.8150	.0000	-.8520	-.0600	-.0310			-.0400		-.0890	-.1040	-.0520	.0480	.1280
20.000			.0230	-.7650	-.1990	-.0380			-.0380		-.1100				
40.000			.0500	-.6840	-.4440	-.0200			-.0340		-.1620	-.1980	-.1100	.0310	.1120
55.000			.0220	-.7070	-.4420	-.0170			-.0440		-.1770				
70.000			-.0820	-.7650	-.2200	.0090			-.0420		-.2510	-.7150	-.1960	-.0490	-.0240
90.000		.9920	-.1820	-.8200	-.0360	.0390			-.0370		-.3230	-.8290	-.2330	-.0420	-.0400
70.000			-.3040	-.8010	.0530	.1370			-.0350		-.5810	-.8540	-.2120	-.0220	-.0110

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB11)

MACH (2) = .901 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.1150					
150.000			-.3320	-.7230	.0550	.3790			.0190		-.5860	-.5700	-.3230	.0120	.0010
157.000								.3080							
162.000									-.1560						
165.000											-.6500	-.6120	-.2990	.0390	.0070
169.000									-.1890						
172.000							.6570								
180.000	1.2000	.3890	-.4330	-.5740	.0600	.5750			.1520		-1.2830	-.4900	-.2780	-.0160	-.0290

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1680							-.0800		-.0480
40.000	.1500	.0910		-.1060	-.2480	-.1510	-.0750			.1520
70.000		-.3230	-.3640	-.3010	-.1050	-.1690	-.0760	-.0700		
90.000		-.2440	-.2240	-.2160	-.2280	-.2150	-.1290	-.0980		
105.000				-.1800	-.2770	-.2560	-.1560	-.1290		
110.000									-.2750	
120.000		-.1490	-.0250	-.0500	-.4700	-.3310	-.1520	-.1410	-.2250	
135.000				.2450	-.1170	-.3640	-.2130	-.2180		
150.000		-.0960	.0120	.1980	-.0330	-.3400	-.2640	-.3030		
165.000		-.0863		.1280	.0750	-.3010	-.2760	-.3090		
180.000		-.1010	-.0100	.0400						

MACH (2) = .900 BETAT (6) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1870	.8090	.0000	-.8470	-.1080	-.0440			-.0540		-.1070	-.1240	-.0760	.0300	.0980
20.000			-.0130	-.7920	-.1780	-.0470			-.0570		-.1340				
40.000			-.0220	-.7380	-.5440	-.0370			-.0600		-.1970	-.2240	-.1380	.0020	.0850
55.000			-.0720	-.7860	-.6050	-.0430			-.0750		-.2170				
70.000			-.1520	-.8450	-.6310	-.0140			-.0730		-.2990	-.7240	-.1890	-.0590	-.0250
90.000		.3110	-.2630	-.8980	-.2230	.0130			-.0750		-.3750	-.8310	-.2140	-.0450	-.0340
120.000			-.3640	-.8540	-.0200	.0980			-.1070		-.6090	-.7310	-.2570	-.0340	-.0080
142.000										-1.0080					
150.000			-.3710	-.7540	-.0060	.3320			-.0250		-.6290	-.5910	-.3760	.0080	.0000
157.000								.2370							
162.000									-.2160						
165.000											-.6140	-.5950	-.3660	.0150	.0050
169.000									-.2020						
172.000							.6280								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (2) = .900 BETAT (6) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1870	.3850	-.4400	-.5700	.0200	.5580			.1370		-1.1990	-.4740	-.3220	-.0650	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1640							-.0900		-.0380
40.000	.1210	.0260		-.1140	-.2170	-.1370	-.1020			-.1870
70.000		-.3110	-.3380	-.3220	-.2000	-.2140	-.1080	-.0980		
90.000		-.2270	-.2140	-.2500	-.3380	-.2530	-.1520	-.1300		
105.000				-.2130	-.3980	-.2780	-.1770	-.1610		
110.000									-.2930	
120.000		-.1410	-.0360	-.1060	-.5370	-.3460	-.1910	-.1720	-.2380	
135.000				.2680	-.1180	-.3930	-.2560	-.2370		
150.000		-.0890	.0150	.1950	-.0380	-.4010	-.3070	-.3210		
165.000		-.0860		.1280	.0600	-.3720	-.3400	-.3120		
180.000		-.1160	-.0190	.0280						

MACH (2) = .902 BETAT (7) = 6.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1660	.7890	.0000	-.8220	-.1840	-.0750			-.0650		-.1360	-.1510	-.1100	-.0020	.0640
20.000			-.0470	-.8080	-.2540	-.0740			-.0750		-.1640				
40.000			-.0910	-.7860	-.4450	-.0650			-.0870		-.2520	-.2630	-.2090	-.0370	.0590
55.000			-.1580	-.8510	-.6680	-.0660			-.0960		-.2530				
70.000			-.2470	-.9260	-.7310	-.0290			-.0970		-.3350	-.7330	-.2010	-.0810	-.0360
90.000		.4250	-.3450	-.9690	-.3970	-.0090			-.1050		-.3710	-.8410	-.2260	-.0540	-.0360
120.000			-.4260	-.9090	-.0470	.0550			-.1770		-.5530	-.6110	-.2840	-.0450	-.0020
142.000										-.9020					
150.000			-.4080	-.7870	-.0910	.2770			-.0800		-.7050	-.6040	-.3980	-.0280	.0080
157.000								.1520							
162.000									-.2760						
165.000											-.6010	-.5860	-.3850	-.0460	-.0110
169.000									-.2130						
172.000							.5800								
180.000	1.1660	.3730	-.4410	-.5690	-.0410	.5210			.1170		-1.1380	-.4930	-.3480	-.1340	.0870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1510							-.0910		-.0440
40.000	.0870	-.0220		-.1160	-.1880	-.1680	-.1400			-.2380

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB11)

MACH (2) = .902 BETAT (7) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.3100	-.3240	-.3260	-.3050	-.2580	-.1420	-.1050		
90.000		-.2200	-.2110	-.2610	-.4050	-.2910	-.1880	-.1430		
105.000				-.2190	-.4420	-.3040	-.2100	-.1700		
110.000									-.3090	
120.000		-.1430	-.0470	-.1130	-.5630	-.4340	-.2320	-.1800	-.2590	
135.000				.3020	-.0750	-.6450	-.3150	-.2400		
150.000		-.1070	-.0050	.1270	-.1160	-.5120	-.4460	-.3740		
165.000		-.1070		.1000	.0320	-.4780	-.4650	-.3240		
180.000		-.1500	-.0360	.0040						

MACH (2) = .900 BETAT (8) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1350	.7710	.0000	-.8090	-.2460	-.1120			-.1110		-.1620	-.1860	-.1490	-.0410	.0310
20.000			-.0880	-.8290	-.2920	-.1040			-.1170		-.1990				
40.000			-.1660	-.8450	-.4070	-.0960			-.1400		-.3080	-.3170	-.2680	-.0870	.0280
55.000			-.2520	-.9340	-.7350	-.0790			-.1270		-.2740				
70.000			-.3640	-1.0080	-.8870	-.0430			-.1220		-.3170	-.7500	-.1990	-.1130	-.0340
90.000		.3310	-.4510	-1.0400	-.8590	-.0290			-.1390		-.3950	-.8510	-.2480	-.0660	-.0300
120.000			-.5000	-.9650	-.3460	.0030			-.2540		-.5730	-.5580	-.4070	-.0590	.0000
142.000										-.7510					
150.000			-.4640	-.7840	-.2680	.2010			-.1520		-.7190	-.5930	-.4810	-.0650	-.0450
157.000								.0460							
162.000									-.3400						
165.000											-.6220	-.5610	-.4560	-.0820	-.0610
169.000									-.2380						
172.000							.5000								
180.000	1.1350	.3580	-.4570	-.5520	-.1300	.4610			.0820		-1.1570	-.5130	-.4430	-.2310	-.1510

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1190							-.0810		-.0530
40.000	.0460	-.0430		-.2130	-.2080	-.1990	-.1740			-.2590
70.000		-.3090	-.3200	-.3380	-.3090	-.5010	-.1830	-.1670		
90.000		-.2330	-.2170	-.2710	-.4080	-.5530	-.2160	-.1790		
105.000				-.2230	-.4580	-.5560	-.2390	-.2120		
110.000									-.3220	
120.000		-.1480	-.0490	-.0870	-.5710	-.6490	-.2910	-.2120	-.2570	
135.000				.3060	-.0360	-.6340	-.4180	-.2960		
150.000		-.1510	-.0420	.0320	-.2300	-.5940	-.6240	-.4630		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (2) = .900 BETAT (8) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.1290		.0550	-.0040	-.5480	-.5610	-.3540		
180.000		-.1770	-.0510	-.0220						

MACH (3) = 1.103 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0005	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI															
.000	1.2370	.8670	.0000	-.4980	-.2360	-.2100			-.1200		.0340	-.0090	-.1090	-.1880	-.1010
20.000			.3680	-.2940	-.2310	-.2570			-.0010		-.1090				
40.000			.5860	-.0380	.0080	-.1900			-.0260		-.0510	.0240	-.0050	-.0220	.1230
55.000			.6600	.0970	.1460	.0980			.2380		.1680				
70.000			.6260	.0820	.1010	.1710			.2660		.1400	-.2980	-.2040	-.1160	-.0830
90.000		1.0730	.4980	-.0340	.1230	.2480			.3090		.0780	-.4020	-.2450	-.2020	-.1360
120.000			.2700	-.1620	.0690	.3810			.4510		-.1190	-.4930	-.4910	-.3090	-.3140
142.000										-.2680					
150.000			.1000	-.3240	.0520	.6020			.3810		-.4960	-.4640	-.4340	-.3020	-.1990
157.000								.6830							
162.000									.2780						
165.000											-.4750	-.3440	-.4040	-.2680	-.1640
169.000									.0500						
172.000							.8240								
180.000	1.2370	.5630	-.1360	-.3400	-.0340	.6090			.3310		-.9010	-.5810	-.7820	-.6200	-.3520

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							.0450		-.0620
40.000	.3210	.4410		.2320	.0700	-.3970	-.3050			-.0840
70.000		-.0820	-.3290	-.4260	-.0430	-.0090	-.1540	-.0310		
90.000		-.0680	-.2930	-.0300	-.2020	.0100	-.1540	-.0900		
105.000				.0220	-.0650	-.0120	-.1600	-.1290		
110.000									-.1540	
120.000		-.1580	-.2480	.5220	-.0100	-.1790	-.1790	-.0730	-.0970	
135.000				.2210	.0300	-.4390	-.1610	-.0070		
150.000		-.0190	.0340	.1090	-.0580	-.2410	-.0360	-.0280		
165.000		-.0130		.1570	.1630	-.1220	-.0560	-.2680		
180.000		-.0070	.0320	.1520						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (3) = 1.09. BETAT (2) = -6.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2800	.8340	.0000	-.5740	-.3070	-.1550			-.0700		.0330	-.0100	-.0780	-.1530	-.0410
20.000			.2740	-.3970	-.3090	-.1130			-.0260		.0390				
40.000			.5090	-.1540	-.0730	-.1270			.0510		.0340	-.0090	-.0140	-.0240	.0940
55.000			.5870	-.0240	.0550	.0190			.2380		.1450				
70.000			.5590	-.0230	.0190	.1550			.2580		.1010	-.3110	-.2430	-.1490	-.1320
90.000		1.0550	.4300	-.1210	.0440	.2440			.2890		.0360	-.4150	-.2770	-.2220	-.2160
120.000			.2290	-.2200	.0010	.3790			.4010		-.1600	-.5040	-.4920	-.3160	-.2670
142.000										-.3410					
150.000			.0910	-.3460	-.0050	.6100			.3690		-.5100	-.5020	-.4440	-.2870	-.1420
157.000								.6740							
162.000									.2600						
165.000											-.5830	-.3730	-.4040	-.2430	-.1280
169.000									.0670						
172.000							.8630								
180.000	1.2800	.6050	-.1190	-.3350	-.0800	.6650			.3540		-.8880	-.5760	-.6400	-.5480	-.1680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							.0290		-.0640
40.000	.2850	.3990		.1960	.0440	-.4180	-.2670			-.0990
70.000		-.0600	-.3140	-.3840	-.0610	-.0250	-.1490	-.0480		
90.000		-.0400	-.2720	-.0300	-.2020	-.0080	-.1520	-.1190		
105.000				.0370	-.0910	-.0380	-.1700	-.1520		
110.000									-.1810	
120.000		-.0810	-.2030	.4810	-.0420	-.2610	-.1780	-.0780	-.0680	
135.000				.2890	.0560	-.4120	-.1440	-.0240		
150.000		-.0050	.0670	.1350	-.0200	-.2500	-.0920	-.0800		
165.000		.0020		.1820	.1950	-.1320	-.0980	-.3150		
180.000		.0130	.0560	.1710						

MACH (3) = 1.102 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3070	.7590	.0000	-.4940	-.1650	-.1500			.0600		.0390	-.0010	-.0500	-.0890	.0430
20.000			.1240	-.5110	-.2560	-.1560			.0790		.0160				
40.000			.3870	-.2870	-.1760	-.1300			.1100		.0210	-.0040	-.0270	-.0390	.1010
55.000			.4920	-.1390	-.0450	-.0230			.2250		.1070				
70.000			.4820	-.1380	-.0770	.1060			.2400		.0590	-.3440	-.2840	-.1800	-.1510
90.000		1.0040	.3740	-.1960	-.0680	.2180			.2700		-.0110	-.4460	-.3270	-.2440	-.2080
120.000			.1980	-.2590	-.0680	.3690			.3470		-.2120	-.5270	-.4880	-.3060	-.1810

MACH (3) = 1.102 BETAT (3) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4240					
150.000			.0820	-.3560	-.0460	.0120			.3600		-.5320	-.5480	-.4420	-.2280	-.1020
157.000								.6640							
162.000									.2430						
165.000											-.7140	-.4150	-.4130	-.1900	-.0910
169.000									.0910						
172.000							.8820								
180.000	1.3070	.6370	-.0940	-.3160	-.1220	.6990			.3780		-.8580	-.5950	-.4310	-.2700	-.1220

X/LB	.5875	.6623	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1970							.0150		-.0920
40.000	.2480	.3530		.1580	.0200	-.4350	-.2110			-.1080
70.000		-.0710	-.3190	-.3680	-.1280	-.0840	-.1370	-.0270		
90.000		-.0470	-.2730	-.0440	-.2150	-.1430	-.1560	-.0730		
105.000				.0350	-.1210	-.2210	-.1910	-.1000		
110.000									-.1950	
120.000		-.0770	-.1480	.4320	-.0780	-.3470	-.1710	-.0410	-.0730	
135.000				.3440	.0650	-.3930	-.2440	-.0290		
150.000		-.0070	.0940	.1730	.0280	-.2500	-.1560	-.1620		
165.000		.0000		.2050	.2000	-.1540	-.1450	-.3440		
180.000		.0230	.0780	.1950						

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3240	.7250	.0000	-.4290	-.1240	-.0560			.0740		.0540	.0150	-.0270	-.0650	.0610
20.000			.0040	-.4690	-.0870	-.0690			.0770		.0410				
40.000			.2780	-.3740	-.1480	-.1100			.1150		.0170	-.0070	-.0390	-.0620	.0790
55.000			.3680	-.2370	-.1120	-.0280			.2140		.0840				
70.000			.3880	-.2370	-.1560	.0810			.2300		.0310	-.3640	-.3240	-.2320	-.1420
90.000		.9390	.2930	-.2740	-.1550	.2060			.2520		-.0370	-.4630	-.3630	-.2320	-.1580
120.000			.1420	-.3140	-.1350	.3450			.2930		-.2360	-.5390	-.4900	-.3070	-.1280
142.000										-.5430					
150.000			.0550	-.3750	-.0790	.6050			.3410		-.5430	-.5370	-.4380	-.1990	-.0730
157.000								.6310							
162.000									.2110						
165.000											-.8050	-.4350	-.4070	-.1750	-.0650
169.000									.0990						
172.000							.8840								

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (3) = 1.101 BETAT (4) = -2.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3240	.6410	-.0890	-.3100	-.1120	.7290			.3840		-.8430	-.6290	-.3600	-.2090	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							.0100		-.0930
40.000	.2050	.2760		.1070	-.0280	-.4140	-.1710			-.1080
70.000		-.0830	-.3250	-.3370	-.1530	-.2100	-.1780	.0150		
90.000		-.0600	-.2700	-.0620	-.2300	-.2060	-.2790	-.0200		
105.000				.0210	-.1500	-.2760	-.2910	-.0360		
110.000									-.1930	
120.000		-.0550	-.0670	.3720	-.1250	-.3800	-.2890	.0090	-.0790	
135.000				.3890	.0870	-.3780	-.2380	-.0760		
150.000		.0040	.1010	.2020	.0880	-.2420	-.1880	-.2460		
165.000		.0120		.2400	.2060	-.1460	-.1650	-.3520		
180.000		.0280	.0740	.2180						

MACH (3) = 1.101 BETAT (5) = 2.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3110	.7330	.0000	-.4400	-.1600	-.0600			.0790		.0490	.0120	-.0330	-.0660	.0550
20.000			-.0750	-.4600	-.1110	-.0840			.0870		.0400				
40.000			.1150	-.5050	-.0660	-.1640			.1390		.0160	-.0430	-.0910	-.1180	.0370
55.000			.1910	-.4250	-.2380	-.1750			.1900		.0280				
70.000			.1850	-.4250	-.3190	-.0870			.1950		-.0370	-.4250	-.4080	-.3270	-.0620
90.000		.7780	.1160	-.4320	-.3280	.0290			.1850		-.1200	-.5210	-.4460	-.3430	-.0690
120.000			.0170	-.4150	-.2770	.2340			.1380		-.3360	-.5980	-.5370	-.2120	-.0490
142.000										-.7340					
150.000			-.0040	-.4140	-.1520	.5280			.2520		-.6310	-.5910	-.3760	-.1650	-.0390
157.000								.5010							
162.000									.1110						
165.000											-.8970	-.5440	-.3220	-.1900	-.0430
169.000									.0920						
172.000							.8430								
180.000	1.3110	.6390	-.0990	-.3140	-.1130	.7210			.3730		-.8460	-.6240	-.3440	-.2120	-.0770

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1820							-.0140		-.0780
40.000	.1360	.1260		.0190	-.0930	-.1720	-.1290			-.1580

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (3) = 1.101 BETAT (5) = 2.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1150	-.1250	-.2500	-.0950	-.2360	-.3320	-.1140		
90.000		-.0710	-.2100	-.1010	-.2070	-.2200	-.3440	-.3470		
105.000				-.0700	-.1730	-.2350	-.3510	-.3660		
110.000									-.2100	
120.000		-.0110	.0770	.1210	-.1790	-.3720	-.2860	-.3210	-.2060	
135.000				.3990	.1550	-.3690	-.3080	-.2830		
150.000		.0200	.0950	.3710	.1850	-.2340	-.3070	-.3140		
165.000		.0290		.3120	.2850	-.1340	-.2450	-.4010		
180.000		.0240	.0680	.2120						

MACH (3) = 1.103 BETAT (6) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2820	.7600	.0000	-.5040	-.1930	-.1860			.1060		.0350	-.0070	-.0530	-.0830	.0280
20.000			-.0790	-.4920	-.1630	-.1990			.0940		.0260				
40.000			.0220	-.5550	-.1110	-.2110			.1150		-.0010	-.0730	-.1310	-.1600	.0130
55.000			.0820	-.5250	-.3130	-.1980			.1630		.0020				
70.000			.0740	-.5110	-.4080	-.0890			.1700		-.0680	-.4550	-.4420	-.3530	-.0560
90.000		.6850	.0250	-.5110	-.4090	.0180			.1400		-.1670	-.5490	-.4840	-.3360	-.0570
120.000			-.0420	-.4650	-.3420	.2030			.0260		-.3880	-.6280	-.5540	-.2160	-.0350
142.000										-.7720					
150.000			-.0480	-.4320	-.1990	.4840			.2020		-.7020	-.6200	-.3510	-.2080	-.0590
157.000								.4390							
162.000									.0640						
165.000											-.9160	-.6050	-.3220	-.2130	-.0480
169.000									.0850						
172.000							.8100								
180.000	1.2820	.6390	-.1040	-.3180	-.1200	.6930			.1620		-.8500	-.6010	-.4270	-.2470	-.1300

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0...	1.0392
PHI										
.000	.1820							-.0220		-.0670
40.000	.1230	-.0060		-.0210	-.1210	-.1740	-.1490			-.1790
70.000		-.1240	-.2440	-.1680	-.0950	-.2620	-.3510	-.2910		
90.000		-.0370	-.1220	-.0930	-.1600	-.2550	-.3640	-.3630		
105.000				-.0400	-.1770	-.2540	-.3680	-.3830		
110.000									-.4220	
120.000		-.0060	.0600	.0840	-.2230	-.3830	-.3150	-.3460	-.4060	
135.000				.5260	.1590	-.4050	-.3290	-.3190		
1.000		.0310	.1240	.3910	.2080	-.2400	-.3280	-.3430		

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (3) = 1.105 BETAT (6) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0390		.3510	.3000	-.1670	-.2670	-.4290		
180.000		.0240	.0730	.1880						

MACH (3) = 1.100 BETAT (7) = 6.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	.7880	.0000	-.6240	-.2580	-.1750			-.0710		.0260	-.0370	-.0770	-.1230	.0110
20.000			-.0490	-.6390	-.1950	-.2250			.1010		.0010				
40.000			-.0030	-.6150	-.2860	-.2480			.1100		-.0430	-.1190	-.1940	-.2300	-.0090
55.000			-.0090	-.5910	-.4460	-.1980			.1240		-.0350				
70.000			-.0360	-.5950	-.5120	-.0800			.1180		-.1090	-.4690	-.4780	-.4030	-.0330
90.000		.5940	-.0790	-.5870	-.5000	.0180			.0630		-.2180	-.5810	-.5220	-.3150	-.0340
120.000			-.1200	-.5230	-.4080	.1770			-.0540		-.4430	-.6670	-.5730	-.2280	-.0370
142.000										-.8140					
150.000			-.1050	-.4630	-.2520	.4340			.1450		-.7940	-.6450	-.3620	-.2310	-.0610
157.000								.3630							
162.000									.0070						
165.000											-.9260	-.6510	-.3560	-.2490	-.0970
169.000									.0660						
172.000							.7530								
180.000	1.2620	.5930	-.1270	-.5330	-.1060	.6520			.3350		-.8540	-.5980	-.5840	-.4720	-.1810

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							-.0090		-.0690
40.000	.1040	-.0120		-.1070	-.1620	-.1640	-.1740			-.1890
70.000		-.1010	-.2340	-.1510	-.1710	-.2850	-.3720	-.3860		
90.000		-.0410	-.1210	-.0980	-.1670	-.2740	-.3890	-.3900		
105.000				-.0440	-.2120	-.2750	-.3870	-.4030		
110.000									-.4290	
120.000		.0220	.0510	.0860	-.2550	-.4150	-.3400	-.3650	-.4210	
135.000				.6090	.1490	-.4390	-.3710	-.3350		
150.000		.0600	.1130	.3570	.1480	-.2750	-.3780	-.3990		
165.000		.0740		.3410	.2850	-.2290	-.3230	-.4380		
180.000		.0090	.0440	.1660						

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AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (3) = 1.100 BETAT (8) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2260	.7540	.0000	-.6400	-.3260	-.1420			-.1610		.0430	-.0350	-.1090	-.1170	-.0350
20.000			-.1270	-.6850	-.1410	-.2120			-.1940		.0140				
40.000			-.1440	-.6860	-.1930	-.2740			.0310		-.0790	-.1830	-.2720	-.2920	.0170
55.000			-.1300	-.6810	-.4730	-.1870			.0500		-.0640				
70.000			-.1640	-.6820	-.5960	-.0650			.0050		-.1460	-.5220	-.5140	-.4390	-.0120
90.000		.4780	-.1850	-.6600	-.5800	.0220			-.0560		-.2710	-.6090	-.5540	-.3070	-.0060
120.000			-.2000	-.5780	-.4770	.1490			-.1210		-.5710	-.7060	-.5570	-.2440	.0100
142.000										-.8480					
150.000			-.1730	-.4890	-.2530	.3680			.0760		-.8670	-.7310	-.4120	-.2710	-.0250
157.000								.2860							
162.000									-.0380						
165.000											-.9330	-.7190	-.4700	-.3180	-.0760
169.000									.0460						
172.000							.6770								
180.000	1.2260	.5540	-.1490	-.3540	-.0770	.5950			.3040		-.8980	-.6210	-.8420	-.7060	-.2430

X/LB	.5873	.6626	.7380	.7809	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							.0070		-.0730
40.000	.0930	.0070		-.1830	-.1840	-.1820	-.1710			-.2060
70.000		-.1010	-.2730	-.1690	-.0810	-.2600	-.3430	-.3780		
90.000		-.0430	-.1760	-.0890	-.1860	-.2520	-.3670	-.3740		
105.000				-.0390	-.2520	-.2540	-.3670	-.3860		
110.000									-.4290	
120.000		.0130	-.0180	.1150	-.2700	-.4740	-.3410	-.3570	-.4280	
135.000				.5890	.1670	-.4190	-.3730	-.3520		
150.000		.0190	.0430	.2450	.0110	-.3210	-.4280	-.4470		
165.000		.0320		.2820	.2450	-.3040	-.3530	-.4520		
180.000		-.0210	.0180	.1380						

MACH (4) = 1.245 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	..355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2920	.9910	.0000	-.3090	-.1570	-.1500			-.1660		-.2070	-.1180	-.0330	.0280	-.1230
20.000			.5160	-.1410	-.1450	-.1360			-.1940		-.1270				
40.000			.7550	.1160	.1030	-.0670			-.1880		-.0280	.0360	-.0180	.0250	.0900
55.000			.8300	.2550	.2330	.1170			.0330		.1680				
70.000			.8020	.2480	.1890	.1290			.1570		.1550	-.1980	-.1630	-.0660	-.0560
90.000		1.1790	.6500	.1330	.1940	.1320			.3090		.0920	-.2680	-.2520	-.1410	-.1260
120.000			.3770	-.0200	.1230	.1380			.5180		-.0990	-.3620	-.3820	-.2370	-.2470

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (4) = 1.249 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.1640					
150.000			.1900	-.1940	.0480	.5980			.4750		-.4090	-.3770	-.3180	-.2620	-.1930
157.000								.7870							
162.000									.3770						
165.000											-.3760	-.2630	-.2970	-.2320	-.1420
169.000									.1630						
172.000							.8840								
180.000	1.2920	.5570	-.0460	-.2170	-.0080	.5220			.3990		-.6790	-.5000	-.3980	-.5490	-.2580

X/LB	.5873	.6616	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2240							.0740		-.0486
40.000	.3130	.4620		.3080	.1750	-.2370	-.3810			.0420
70.000		-.0710	-.2560	-.3430	-.1270	-.1180	-.1750	-.0230		
90.000		-.0830	-.2370	-.0450	-.1680	-.1320	-.1900	-.2190		
105.000				.0640	.0390	-.1340	-.2390	-.2630		
110.000									-.1560	
120.000		-.1860	-.2260	.5860	.0920	-.1920	-.2420	-.2440	-.1370	
135.000				.2070	.0810	-.3580	-.2460	-.1010		
150.000		-.0560	.0250	.1220	-.0030	-.1790	-.0400	-.0630		
165.000		-.0470		.1510	.1780	-.0470	-.0140	-.2310		
180.000		-.0570	.0330	.1640						

MACH (4) = 1.249 BETAT (2) = -6.070

SECTION (1)OR[illegible]ITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3550	1.0130	.0000	-.3510	-.2180	-.0340			-.1340		-.2010	-.1130	.0880	-.0010	-.1050
20.000			.4820	-.1800	-.1690	-.1320			-.1010		-.0880				
40.000			.6860	.0460	.0660	-.1140			-.2080		.0320	.0460	-.0320	.0900	.0670
55.000			.7380	.1660	.1710	.0520			-.0120		.1440				
70.000			.6950	.1590	.1220	.0740			.1310		.0730	-.2060	-.1840	-.0950	-.0880
90.000		1.1320	.5560	.0540	.1350	.0910			.2670		.0040	-.2820	-.2520	-.1720	-.1520
120.000			.3230	-.0800	.0810	.2040			.4250		-.1510	-.3830	-.3720	-.2630	-.2320
142.000										-.2260					
150.000			.1760	-.2090	.0270	.6090			.4570		-.4020	-.4320	-.3360	-.2580	-.1450
157.000								.7790							
162.000									.3620						
165.000											-.4790	-.3150	-.3210	-.2280	-.1200
169.000									.1810						
172.000							.9320								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RSNB11)

MACH (4) = 1.249 BETAT (2) = -6.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3550	.6180	-.0320	-.2160	-.0630	.6010			.4220		-.6790	-.4550	-.4670	-.5140	-.1910
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2220							.0610		-.0460					
40.000	.2700	.4140		.2680	.1450	-.2610	-.2190			.0160					
70.000		-.1060	-.2490	-.3330	-.1290	-.1270	-.1860	-.0820							
90.000		-.1020	-.2100	-.0350	-.1600	-.1540	-.2040	-.2430							
105.000				.0750	.0110	-.1540	-.2600	-.2650							
110.000									-.2020						
120.000		-.1410	-.1770	.5420	.0760	-.2080	-.2490	-.2390	-.2010						
135.000				.2660	.1090	-.3307	-.1920	-.0960							
150.000		-.0650	.0630	.1290	.0320	-.1640	-.0430	-.0720							
165.000		-.0660		.1520	.2130	-.0330	-.0160	-.2320							
180.000		-.0940	.0410	.1490											

MACH (4) = 1.249 BETAT (3) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3780	.9740	.0000	-.4180	-.2660	-.0320			-.1450		-.2460	.1890	.1220	-.0250	-.0880
20.000			.3880	-.2670	-.2420	-.0120			-.1280		-.1670				
40.000			.6000	-.0420	-.0070	.0250			-.1060		.0520	-.0200	.1090	.0300	0270
55.000			.6600	.0680	.0980	-.0030			-.0020		.0570				
70.000			.6250	.0390	.0490	.0140			.1480		.0080	-.2250	-.2110	-.1060	-.1240
90.000		1.0930	.5000	-.0310	.0560	.0310			.2490		-.0280	-.2960	-.3030	-.1740	-.1750
120.000			.2080	-.1180	.0230	.2350			.3560		-.1720	-.4140	-.3800	-.2420	-.2060
142.000										-.3400					
150.000			.1810	-.2180	-.0060	.6210			.4610		-.4030	-.4620	-.3540	-.2550	-.1140
157.000								.7850							
162.000									.3540						
165.000											-.5890	-.3460	-.3440	-.2270	-.0930
169.000									.2130						
172.000							.9470								
180.000	1.3780	.6590	.0030	-.1930	-.0550	.6470			.4580		-.6380	-.4540	-.4000	-.3240	-.1820
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2330							.0540		-.0550					
40.000	.2580	.3980		.2330	.1140	-.2700	-.1730			-.0450					

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (4) = 1.249 BETAT (3) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1190	-.2330	-.3200	-.1250	-.1270	-.1940	-.2320		
90.000		-.0970	-.1970	-.0230	-.1540	-.1670	-.2230	-.2490		
105.000				.0800	-.0110	-.1670	-.2590	-.2650		
110.000									-.2630	
120.000		-.0930	-.1280	.4850	.0470	-.2350	-.2540	-.2270	-.2090	
135.000				.3150	.1390	-.3050	-.1760	-.1140		
150.000		-.0470	.0770	.1540	.0710	-.1530	-.0720	-.1060		
165.000		-.0460		.1890	.2210	-.0440	-.0510	-.2560		
180.000		-.0440	.0560	.1930						

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3910	.9210	.0000	-.2600	-.2070	-.0330			-.1380		-.2350	.1910	.0900	.0060	-.0350
20.000			.2350	-.2950	-.1770	-.0450			-.1290		-.2190				
40.000			.4670	-.1670	-.0810	-.0290			-.1090		-.1030	.1870	.0640	.0110	.0000
55.000			.5490	-.0460	.0090	-.0240			-.0410		-.0310				
70.000			.5260	-.0500	-.0310	-.0180			.1180		-.0310	-.2460	-.1950	-.1520	-.1490
90.000		1.0290	.4210	-.1050	-.0210	.0090			.2150		-.0570	-.3900	-.2750	-.2020	-.1830
110.000			.2550	-.1560	-.0280	.2890			.2820		-.2080	-.4390	-.3820	-.2380	-.1610
130.000										-.4190					
150.000			.1700	-.2230	-.0260	.6240			.4480		-.4200	-.4900	-.3790	-.2100	-.0810
157.000								.7730							
162.000									.3290						
165.000											-.6350	-.3820	-.3620	-.1910	-.0650
169.000									.2280						
172.000							.9910								
180.000	1.3910	.6760	.0160	-.1780	-.0380	.7140			.4730		-.6280	-.5360	-.3460	-.2600	-.0740

Y/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							.0440		-.0620
40.000	.1830	.3220		.1990	.0900	-.2870	-.1790			-.0760
70.000		-.1230	-.2210	-.3000	-.1330	-.1330	-.2000	-.2460		
90.000		-.0820	-.1700	-.0220	-.1420	-.1860	-.2400	-.2560		
105.000				.0810	-.0400	-.1870	-.2680	-.2630		
110.000									-.2710	
120.000		-.0690	-.0300	.4130	.0070	-.2600	-.2550	-.2180	-.2200	
135.000				.3650	.1640	-.2770	-.1620	-.1280		
150.000		-.0410	.1120	.1810	.1360	-.1360	-.0950	-.1450		

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (4) = 1.248 BETAT (4) = -2.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0350		.2190	.2330	-.0290	-.0670	-.2700		
180.000		-.0360	.0830	.2140						

MACH (4) = 1.246 BETAT (5) = 2.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE Cr

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3880	.9280	.0000	-.2610	-.2300	-.0210			-.1340		-.2300	.1950	.0860	.0130	-.0280
20.000			.1170	-.2800	-.1980	-.0520			-.1410		-.2260				
40.000			.2700	-.3360	-.1410	-.0830			-.1440		-.1450	.0990	.0250	-.0330	-.0290
55.000			.3260	-.2530	-.1700	-.0760			-.0780		-.0860				
75.000			.3180	-.2540	-.2060	-.0300			.0400		-.1050	-.2800	-.2530	-.2120	-.1620
90.000		.8590	.2460	-.2610	-.1960	.0190			.1280		-.1570	-.4580	-.2930	-.2380	-.1490
120.000			.1380	-.2520	-.1460	.3160			.1780		-.3040	-.5020	-.4500	-.2000	-.0920
142.000										-.5060					
150.000			.1080	-.2590	-.0770	.5960			.3770		-.4800	-.5230	-.3950	-.1700	-.0430
157.000								.6490							
162.000									.2480						
183.000											-.6700	-.4670	-.3530	-.1870	-.0400
169.000									.2260						
172.000							.9430								
180.000	1.3880	.6830	.0170	-.1780	-.0330	.7250			.4640		-.6210	-.5410	-.3450	-.2590	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2080							.0570		-.0850
40.000	.1370	.1340		.0780	.0040	-.2900	-.1030			-.1210
70.000		-.1130	-.2160	-.2070	-.1400	-.1590	-.2380	-.2770		
90.000		-.0480	-.1450	-.0380	-.1840	. 950	-.2470	-.2630		
105.000				-.0170	-.0860	-.2040	-.2640	-.2730		
110.000									-.2960	
120.000		-.0230	.0840	.1640	-.0440	-.3050	-.2500	-.2240	-.2660	
135.000				.3920	.2210	-.2390	-.2020	-.2050		
150.000		-.0110	.1170	.3210	.2460	-.1070	-.1700	-.2100		
165.000		-.0110		.3070	.3040	.0040	-.1120	-.3130		
180.000		-.0120	.0840	.2200						

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB11)

MACH (4) = 1.247 BETAT (6) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3460	.9680	.0000	-.3920	-.2510	-.0220			-.1350		-.2210	.1680	.1180	-.0160	-.0800
20.000			.1350	-.3820	-.2350	-.0510			-.1510		-.2550				
40.000			.2100	-.3890	-.2120	-.0880			-.1630		-.1280	.0740	.0020	-.0690	-.0820
55.000			.2320	-.3340	-.2580	-.0920			-.0810		-.1120				
70.000			.2120	-.3310	-.2940	-.0530			.0250		-.1380	-.3280	-.2880	-.2370	-.1500
90.000		.7770	.1530	-.3300	-.2780	.0560			.1060		-.1980	-.4850	-.3340	-.2500	-.1360
120.000			.0730	-.3060	-.2070	.3190			.1180		-.3340	-.5320	-.4750	-.1650	-.0860
142.000										-.5420					
150.000			.0530	-.2850	-.1130	.5440			.3320		-.5170	-.5260	-.3770	-.1800	-.0450
157.000								.5870							
162.000									.1940						
165.000											-.6780	-.4990	-.3290	-.2270	-.0500
169.000									.2100						
172.000							.9060								
180.000	1.3460	.6740	-.0020	-.1930	-.0450	.6840			.4410		-.6220	-.4740	-.3390	-.2960	-.1790

X/LB	.5879	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	2370							.0320		-.0500
40.000	.1440	.0390		.0810	-.0640	-.1800	-.1170			-.1470
70.000		-.1020	-.2130	-.2010	-.1190	-.1710	-.2050	-.2290		
90.000		-.0470	-.1340	-.0500	-.1850	-.1880	-.2200	-.2250		
105.000				-.0070	-.1220	-.1860	-.2220	-.2490		
110.000									-.2950	
120.000		-.0100	.0300	.1310	-.0910	-.3060	-.2400	-.2040	-.2670	
135.000				.5510	.2360	-.2490	-.2080	-.2190		
150.000		-.0030	.1020	.3390	.2760	-.1070	-.1720	-.2060		
165.000		-.0140		.3430	.3320	-.0250	-.1270	-.3260		
180.000		-.0490	.0570	.1960						

MACH (4) = 1.246 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3500	.9180	.0000	-.4370	-.2380	-.0260			-.1450		-.1910	-.0600	.0760	.0100	-.1050
20.000			.0700	-.4430	-.2040	-.0760			-.1670		-.2540				
40.000			.1120	-.4170	-.2240	-.1270			-.1900		-.1500	.0650	-.0340	-.0960	-.1250
55.000			.1420	-.3650	-.3180	-.1210			-.0890		-.1240				
70.000			.1200	-.3920	-.3670	-.0350			.0160		-.1700	-.3820	-.3210	-.2660	-.1340
90.000		.6850	.0650	-.4000	-.3470	.0870			.0830		-.2340	-.5060	-.3660	-.2460	-.1200
120.000			.0060	-.3540	-.2670	.3060			.0370		-.3610	-.5600	-.5030	-.1570	-.0760

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

MACH (4) = 1.246 BETAT (7) = 6.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5170
PHI															
142.000										-.5740					
150.000			.0060	-.3050	-.1490	.4590			.2820		-.5790	-.5290	-.3590	-.2260	-.0550
157.000								.5380							
162.000									.1490						
165.000											-.6820	-.5280	-.3230	-.3070	-.0760
169.000									.2020						
172.000							.8720								
180.000	1.3500	.6810	-.0110	-.2070	-.0540	.5970			.4230		-.6310	-.4470	-.4460	-.5030	-.2190

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2300							.0440		-.0440
40.000	.1380	-.0380		-.0320	-.0920	-.1310	-.1210			-.1600
70.000		-.0670	-.1710	-.1590	-.0770	-.1680	-.2390	-.2890		
90.000		-.0150	-.0980	-.0380	-.1610	-.1690	-.2600	-.2710		
105.000				.0180	-.1300	-.1770	-.2480	-.2840		
110.000									-.3130	
120.000		.0010	.0390	.1840	-.1020	-.3610	-.2530	-.2300	-.2920	
135.000				.6090	.2490	-.2880	-.2360	-.2580		
150.000		.0020	.1300	.3550	.2470	-.1220	-.2060	-.2520		
165.000		.0040		.3700	.3400	-.0430	-.1530	-.3570		
180.000		-.1010	.0300	.1420						

MACH (4) = 1.247 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5170
PHI															
.000	1.2970	.9340	.0000	-.3790	-.2370	-.0760			-.1300		-.1780	-.1120	-.0300	.0460	-.1110
20.000			.1080	-.4530	-.2790	-.0320			-.1880		-.2580				
40.000			.0760	-.4600	-.3690	-.1570			-.2310		-.1840	.0270	-.1300	-.1190	-.0580
55.000			.0570	-.4410	-.4120	-.1260			-.0820		-.1560				
70.000			.0170	-.4620	-.4380	-.0230			.0150		-.1970	-.4280	-.3300	-.2920	-.0190
90.000		.5950	-.0290	-.4590	-.4140	.1250			.0700		-.2560	-.5260	-.3970	-.2310	-.0280
120.000			-.0650	-.4960	-.3250	.2700			-.0090		-.3600	-.5720	-.5160	-.1670	-.0450
142.000										-.5990					
150.000			-.0470	-.3280	-.1870	.3540			.2190		-.6170	-.5310	-.3570	-.2350	-.0610
157.000								.4720							
162.000									.1170						
165.000											-.6720	-.5430	-.3590	-.3680	-.1260
169.000									.1830						
172.000							.8080								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (ORBNB11)

MACH (4) = 1.247 BETAT (8) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2970	.6420	-.0240	-.2170	-.0450	.5150			.3960		-.6490	-.4530	-.5500	-.5473	-.2700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2270							.0540		-.0340
40.000	.1320	-.1090		-.1230	-.1400	-.1430	-.1210			-.1770
70.000		-.0820	-.2120	-.1660	-.0780	-.1740	-.2580	-.3100		
90.000		-.0310	-.1360	-.0340	-.1780	-.2010	-.2610	-.2920		
105.000				-.0010	-.1420	-.2300	-.2680	-.3030		
110.000									-.3230	
120.000		.0000	-.0300	.2670	-.1120	-.3780	-.2960	-.2550	-.3070	
135.000				.6280	.2580	-.3000	-.2480	-.2910		
150.000		-.0110	.0280	.2590	.1170	-.2100	-.2585	-.3080		
165.000		-.0090		.3020	.3310	-.1200	-.1860	-.3670		
180.000		-.0710	.0280	.1630						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB12) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
RUDDER = -5.000 ELEVON = .000
R.DFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.195*	.2259	.2711	.3200	.3953	.5190
PHI															
.000	1.2590	.7450	.0000	-.4730	-.1390	.0090			.0940		-.0590	-.1390	-.2410	-.3540	-.4230
20.000			.2450	-.3530	-.1700	-.1080			.1120		-.0460				
40.000			.4470	-.1570	.0130	-.1390			-.1290		-.1260	-.1760	-.1860	-.2070	- 1430
55.000			.5460	.0300	.2220	.2190			.1750		.1290				
70.000			.5850	.1130	.2990	.3100			.2330		.1380	-.3140	-.2230	-.0140	-.0070
90.000		1.1210	.5840	.1750	.3650	.3600			.2600		.1440	-.3870	-.3010	-.0240	-.0260
120.000			.5820	.3160	.4510	.5210			.3570		.1380	-.4050	-.2040	-.0640	-.0250
142.000										-.2340					
150.000			.5200	.3540	.4940	.7610			.5280		-.2030	-.2040	-.1990	-.1380	-.0540
157.000								.7910							
162.000									.4520						
165.000											-.3800	-.1690	-.1940	-.1340	-.0500
169.000									.3260						
172.000							.9540								
180.000	1.2590	.8760	.3080	.2840	.3840	.8010			.5690		-.6910	-.3110	-.4210	-.2840	-.2900

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1330							.0020		-.1630
40.000	.2430	.3580		-.0560	-.1170	-.4250	-.3470			-.1920
70.000		.0920	.0320	.1680	.2220	.0230	.0060	.1270		
90.000		.1070	.1390	.2480	.1820	.0140	-.0320	.1480		
105.000				.3060	.1530	.0130	-.0310	.1270		
110.000									-.1770	
120.000		.0770	.3000	.5490	.0550	-.0400	.0430	.0900	-.0400	
135.000				.6000	.2910	.0900	.1590	.1220		
150.000		.0340	.3150	.3770	.1780	.2160	.2420	.1140		
165.000		.0560		.4360	.3910	.3220	.2910	-.1320		
180.000		-.2180	.1450	.2320						

MACH (1) = 1.100 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3000	.7740	.0000	-.4700	-.2660	.1800			.1000		-.0120	-.1240	-.2130	-.3220	-.1290
20.000			.2040	-.4000	-.1430	.1610			.0980		-.0270				
40.000			.3360	-.2810	.0000	.0740			.0130		-.1170	-.1660	-.2020	-.2490	-.1650
55.000			.3920	-.1930	.1360	.2100			.1460		-.0050				
70.000			.4110	-.1410	.1790	.2600			.1740		-.0320	-.3750	-.3170	-.0780	-.0220
90.000		.9960	.4080	-.0580	.2500	.2810			.1730		-.0630	-.4400	-.3790	-.0660	-.0430
120.000			.4450	.1710	.3680	.4300			.2140		-.0610	-.4610	-.2390	-.1100	-.0340
142.000										-.5360					
150.000			.4590	.3030	.4580	.7260			.4780		-.3130	-.2310	-.2210	-.1390	-.0520
157.000								.7250							
162.000									.3990						
165.000											-.6460	-.2220	-.2290	-.1370	-.0620
169.000									.3440						
172.000							.9810								
180.000	1.3000	.9180	.3260	.3130	.4410	.8600			.6080		-.6750	-.3530	-.2660	-.1620	-.1040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.1880							-.0300		-.1370
40.000	.2050	.2680		-.1680	-.2390	-.4590	-.3300			-.2370
70.000		.0880	.1310	.1430	.1540	-.0330	-.0980	.0010		
90.000		.1040	.1940	.1990	.1010	-.0380	-.0960	-.0120		
105.000				.2360	.0340	-.0450	-.0870	-.0480		
110.000									-.2460	
120.000		.0910	.3480	.4270	-.0590	-.1020	-.0150	-.0490	-.1510	
135.000				.7080	.3110	-.0790	.0750	.0250		
150.000		.0590	.3740	.4720	.3100	.0770	.1470	.0300		
165.000		.0590		.4910	.4620	.1890	.1830	-.1980		
180.000		-.0160	.3190	.4170						

MACH (1) = 1.097 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3110	.7830	.0000	-.4880	-.2420	.1890			.1200		.0050	-.1200	-.2040	-.2880	.0440
20.000			.1510	-.4540	-.2930	.1790			.1180		-.0220				
40.000			.2170	-.3820	-.1610	.1370			.0680		-.0920	-.1780	-.2400	-.3030	-.0460
55.000			.2390	-.3550	.1380	.1800			.1010		-.0840				
70.000			.2410	-.3430	.1660	.2060			.1080		-.1510	-.4330	-.3920	-.1120	-.0480
90.000		.8560	.2370	-.2820	.1740	.2010			.0830		-.1750	-.4950	-.4390	-.1210	-.0660
120.000			.3070	.0050	.2600	.3190			.0670		-.2180	-.5170	-.2960	-.1580	-.0710

MACH (1) = 1.097 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.6370					
142.000									.4030		-.4160	-.3190	-.2070	-.1590	-.0700
150.000			.3840	.2290	.4020	.6500									
157.000								.0140							
162.000									.3120		-.7350	-.2660	-.1690	-.1370	-.0700
165.000															
169.000									.3360						
172.000							.9650								
180.000	1.3110	.9350	.5430	.3250	.4630	.8780			.6240		-.6510	-.4870	-.1760	-.1370	-.0830

X/LB	.5875	.6626	.7380	.7869	.8263	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							.0050		-.1280
40.000	.1420	.1410		-.2780	-.2660	-.2640	-.2980			-.2400
70.000		.1090	.1990	.1190	.1010	-.0880	-.1610	-.0900		
90.000		.1240	.2210	.1540	.0420	-.1030	-.1530	-.1110		
105.000				.1550	-.0430	-.1060	-.1420	-.1440		
110.000									-.3090	
120.000		.1120	.3490	.2590	-.1800	-.1830	-.1040	-.1370	-.2430	
35.000				.7450	.2790	-.2430	-.0740	-.0910		
90.000		.0850	.3910	.5670	.4050	-.0340	-.0390	-.0720		
165.000		.0550		.5300	.4870	.0640	.0260	-.2990		
180.000		.0130	.3630	.4610						

MACH (1) = 1.099 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.7680	.0000	-.4660	-.2510	.1810			.1090		-.0110	-.1180	-.2130	-.3300	-.0770
20.000			.0880	-.4980	-.3280	.1760			.1050		-.0450				
40.000			.0950	-.4770	-.3150	.1620			.0830		-.1070	-.2140	-.2910	-.3770	.0000
55.000			.0780	-.4940	-.2570	.1530			.0620		-.1460				
70.000			.0660	-.4950	-.0450	.1540			.0490		-.2330	-.4990	-.4570	-.1340	-.0680
90.000		.6970	.0750	-.4320	-.0730	.1160			.0000		-.2890	-.5550	-.4910	-.1590	-.0870
120.000			.1700	-.1680	.0730	.1760			-.0850		-.3680	-.5880	-.3200	-.2420	-.1180
142.000										-.7270					
150.000			.2980	.1310	.2960	.5370			.3070		-.6040	-.4260	-.2100	-.1960	-.0930
157.000								.4630							
162.000									.1960						
165.000											-.7710	-.4270	-.1600	-.2030	-.1560
169.000									.3030						
172.000							.9010								

MACH (1) = 1.099 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2950	.9260	.3400	.3110	.4410	.8500			.5970		-.6410	-.3360	-.2430	-.1680	-.1090

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							-.0160		-.1400
40.000	.1260	-.0320		-.2440	-.2310	-.2490	-.2480			-.2760
70.000		.1440	.1640	.0910	.0700	-.1500	-.2130	-.1620		
90.000		.1570	.2140	.1260	.0030	-.1740	-.2010	-.1850		
105.000				.0910	-.1450	-.1900	-.1970	-.2060		
110.000									-.3590	
120.000		.1640	.3190	.1070	-.3070	-.3040	-.1980	-.2140	-.3080	
135.000				.7170	.2120	-.3910	-.3750	-.2460		
150.000		.1140	.3520	.4870	.4160	-.0650	-.1530	-.2380		
165.000		.0350		.4820	.4480	-.0340	-.0950	-.3850		
180.000		.0210	.3190	.4120						

MACH (1) = 1.105 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2530	.7340	.0000	-.5060	-.1400	-.0200			.1180		-.0250	-.1270	-.2390	-.3490	-.4100
20.000			.0200	-.5370	-.2000	.1620			.0970		-.0710				
40.000			-.0350	-.5650	-.4290	.1670			.0790		-.1380	-.2530	-.3640	-.4630	-.0950
55.000			-.0800	-.6120	-.4220	.1330			.0530		-.1690				
70.000			-.1130	-.6230	-.3860	.0530			.0170		-.2920	-.5460	-.5030	-.1730	-.0940
90.000		.3240	-.0920	-.5610	-.2820	-.0160			-.0660		-.3650	-.6090	-.4710	-.2000	-.1030
120.000			.0240	-.3290	-.1010	.0240			-.2610		-.4840	-.6440	-.3640	-.3200	-.1790
142.000										-.7980					
190.000			.1910	.0110	.1510	.3890			.1570		-.7010	-.4770	-.2870	-.2260	-.2360
157.000								.3060							
162.000									.0920						
135.000											-.7970	-.4210	-.3800	-.3720	-.3050
169.000									.2510						
172.000							.7890								
180.000	1.2530	.2450	.3020	.2630	.3730	.7760			.5380		-.6300	-.3400	-.3880	-.2740	-.2700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1190							-.0050		-.1910
40.000	.0700	-.0620		-.2860	-.2940	-.3030	-.2930			-.2960

MACH (1) = 1.105 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1480	.1630	.0700	.0500	-.2090	-.2660	-.2450		
90.000		.1280	.1890	.1050	-.0280	-.2060	-.2560	-.2360		
105.000				.1030	-.1620	-.2200	-.2620	-.2640		
110.000									-.3860	
120.000		.1380	.2830	.1210	-.3640	-.3570	-.2940	-.3110	-.3600	
135.000				.4650	.1990	-.4560	-.5300	-.5340		
150.000		-.0830	.2280	.3420	.2950	-.1030	-.2430	-.3310		
165.000		-.0650		.3350	.2920	-.1180	-.1950	-.4020		
180.000		-.1500	.0920	.2350						

MACH (2) = 1.250 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3170	.8750	.0000	-.2440	-.0630	-.2310			-.0200		.1550	.0290	-.0880	-.2040	-.3210
20.000			.4070	-.1460	-.0410	-.2080			.0100		.1430				
40.000			.6030	.0320	.1410	-.2070			-.0770		-.1140	-.0140	-.0380	-.1150	-.1050
55.000			.6920	.1830	.3080	.1430			.2770		.1560				
70.000			.7220	.2300	.3600	.2810			.3260		.1460	-.1750	-.1410	.0440	.0490
90.000		1.2000	.6880	.2450	.4070	.3760			.3490		.1160	-.2360	-.2080	.0330	.0270
120.000			.6390	.3370	.4790	.5730			.4530		.1030	-.2700	-.1130	-.0120	.0190
142.000										-.1330					
150.000			.5620	.3550	.4830	.8230			.6300		-.1490	-.1190	-.1210	-.0920	-.0270
157.000								.8770							
162.000									.5530						
165.000											-.3060	-.1030	-.0990	-.0890	-.0210
169.000									.4270						
172.000							1.0260								
180.000	1.3170	.9310	.3500	.2910	.3870	.8630			.6510		-.5400	-.2280	-.2910	-.2350	-.2620

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3400							.0270		-.1430
40.000	-.1020	.3410		.0290	-.0570	-.2570	-.5590			.0060
70.000		-.0500	-.0040	.0610	.2030	.0790	.0040	.0210		
90.000		-.0350	.0360	.1830	.1350	.0760	-.0290	.0550		
105.000				.2490	.1330	.0770	-.0410	.0540		
110.000									-.0940	
120.000		-.0410	.1090	.5600	.1300	-.0290	.0570	.1180	.0200	
135.000				.5750	.3240	-.1250	.2310	.2220		
150.000		-.0520	.1540	.3060	.1750	.2190	.3170	.2180		

MACH (2) = 1.250 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0350		.3860	.4210	.3490	.3620	-.0110		
180.000		-.2800	-.0570	.0960						

MACH (2) = 1.251 BETAT (2) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3640	.9170	.0000	-.2550	-.0940	-.0760			.2510		.1670	.0410	-.0670	-.1950	-.2790
20.000			.3710	-.1870	-.0580	-.1240			.1780		.1580				
40.000			.4940	-.0750	.1020	-.1950			-.0920		.0520	-.0010	-.0530	-.1520	-.1700
55.000			.5430	-.0070	.2670	.0850			.1430		.1190				
70.000			.5490	.0090	.3170	.2130			.2030		.0320	-.2000	-.1620	-.0250	.0010
90.000		1.0830	.5230	.0280	.3550	.2950			.2030		-.0130	-.2600	-.2280	-.0330	-.0070
120.000			.5190	.1720	.4180	.4980			.3110		-.0490	-.3050	-.1520	-.0680	-.0120
142.000										-.3550					
150.000			.5070	.2920	.4720	.7960			.5870		-.2030	-.1640	-.1410	-.0960	-.0180
157.000								.8220							
162.000									.5100						
165.000											-.4690	-.1460	-.1540	-.0890	-.0220
169.000									.4520						
172.000							1.0600								
180.000	1.3640	.9570	.3740	.3030	.4430	.9260			.6940		-.4700	-.2790	-.2310	-.1290	-.0750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2250							.0050		-.1290
40.000	-.1490	.2580		-.0990	-.1710	-.3050	-.3140			-.0450
70.000		-.0920	.0150	.0840	.1540	.0220	-.0450	.0000		
90.000		-.0630	.0630	.1500	.0940	.0220	-.0630	.0070		
105.000				.1850	.0610	.0230	-.0700	-.0040		
110.000									-.1330	
120.000		-.0320	.1630	.4480	.0350	-.1100	.0180	.0420	-.0630	
135.000				.7100	.3580	-.0860	.1050	.1060		
150.000		-.0180	.1770	.3680	.3190	.1290	.1750	.1100		
165.000		-.0140		.4290	.5070	.2550	.2280	-.1010		
180.000		-.0460	.1030	.3150						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3770	.9150	.0000	-.2650	-.0740	.1190			.2460		.1500	.0250	-.0700	-.1740	-.2800
20.000			.3010	-.2530	-.1070	.1160			.1950		.1260				
40.000			.3590	-.1900	-.0380	-.1460			.0930		.0380	-.0380	-.1090	-.1930	-.1980
55.000			.3720	-.1700	.0170	.0560			.1770		.0420				
70.000			.3770	-.1720	.1410	.1700			.0840		-.0400	-.2960	-.2600	-.0830	-.0170
90.000		.9430	.3590	-.1350	.2490	.2320			.1250		-.1030	-.3340	-.3210	-.0850	-.0280
120.000			.3970	-.0060	.2940	.4070			.1610		-.1910	-.4070	-.2150	-.1170	-.0330
142.000										-.4350					
150.000			.4410	.1950	.4240	.7340			.5150		-.3030	-.2740	-.[illegible]	-.1110	-.0310
157.000								.7170							
162.000									.4250						
165.000											-.5550	-.2310	-.1670	-.0950	-.0340
169.000									.4440						
172.000							1.0420								
180.000	1.3770	.9380	.3840	.2970	.4760	.9470			.7050		-.4750	-.3690	-.1490	-.0880	-.0240

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1120							.0920		-.1390
40.000	-.1480	.1280		-.1570	-.2200	-.3490	-.2980			-.1790
70.000		-.1020	.0360	.0970	.1180	-.0210	-.0790	-.0330		
90.000		-.0710	.0880	.1280	.0700	-.0210	-.0880	-.0430		
105.000				.1290	.0110	-.0320	-.0880	-.0600		
110.000									-.1800	
120.000		-.0500	.1750	.3040	-.0720	-.1810	-.0450	-.0480	-.1200	
135.000				.7890	.3470	-.1470	-.0840	-.0280		
150.000		-.0190	.1070	.4150	.4610	.0660	.0280	-.0230		
165.000		-.0180		.4850	.5890	.1700	.1120	-.2090		
180.000		-.0120	.0120	.4280						

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3970	.9000	.0000	-.2580	-.1190	-.0420			.2850		.1640	.0320	-.0750	-.2020	-.2900
20.000			.2390	-.3000	-.1590	.0300			.2750		.1230				
40.000			.2280	-.2890	-.1600	.0390			.2020		.0390	-.0680	-.1570	-.2530	-.2460
55.000			.2050	-.3160	-.1810	.0470			.1000		-.0040				
70.000			.1940	-.3230	-.2060	.1430			.0450		-.1000	-.3470	-.3230	-.1170	-.0340
90.000		.7800	.1940	-.2800	-.1030	.1720			.0480		-.2040	-.3870	-.3660	-.1140	-.0430
7.000			.2600	-.1400	.1220	.2910			.0450		-.2820	-.4790	-.2770	-.1900	-.0[illegible]

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB12)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5200					
150.000			.3570	.1110	.3110	.6260			.4160		-.4450	-.3310	-.1890	-.1300	-.0410
157.000								.5680							
162.000									.3140						
165.000											-.5800	-.3370	-.1360	-.1420	-.1180
169.000									.4110						
172.000							.9760								
180.000	1.3570	.9640	.3760	.2930	.4390	.9160			.6790		-.4640	-.3320	-.2060	-.1250	-.0700

X/LB	.5073	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0720							.0090		-.1440
40.000	.0080	.0060		-.1920	-.2280	-.2370	-.2270			-.2320
70.000		-.1110	.0640	.1020	.1010	-.0620	-.1270	-.0810		
90.000		-.0820	.1010	.1080	.0520	-.0730	-.1300	-.0910		
105.000				.0900	-.0770	-.0840	-.1310	-.1060		
110.000									-.2340	
120.000		-.0830	.1220	.1470	-.1910	-.2770	-.1240	-.1310	-.1880	
135.000				.6800	.3080	-.2570	-.2650	-.2600		
150.000		-.0410	.1000	.2660	.3800	.0590	-.0580	-.1440		
165.000		-.0900		.2820	.4330	.0940	-.0040	-.2760		
180.000		-.0470	.1050	.3160						

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3030	.8560	.0000	-.2710	-.0620	-.2520			-.0190		.1660	.0650	-.0680	-.2050	-.3300
20.000			.1710	-.3400	-.1340	-.2500			.1830		.1280				
40.000			.0980	-.3810	-.2900	-.0390			.1810		.0410	-.1030	-.2090	-.3390	-.2910
60.000			.0490	-.4350	-.3420	.0570			.0070		-.0250				
70.000			.0170	-.4480	-.3720	.1390			.0140		-.1570	-.3810	-.3700	-.1330	-.0620
90.000		.6050	.0250	-.4030	-.3080	.1430			-.0160		-.2970	-.4500	-.3620	-.1420	-.0680
120.000			.1140	-.2470	-.0540	.1810			-.1030		-.3670	-.5220	-.3320	-.2390	-.1150
142.000										-.5750					
150.000			.2510	.0430	.1780	.4590			.2600		-.5190	-.4020	-.2300	-.1870	-.1930
157.000								.4170							
162.000									.2200						
165.000											-.5900	-.3840	-.2640	-.3180	-.2650
169.000									.3620						
172.000							.8570								

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB12)

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3030	.9190	.3420	.2670	.3640	.8330			.6210		-.4570	-.2360	-.2680	-.2220	-.2390
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.3180							.0090		-.1880					
40.000	-.0460	-.0230		-.2210	-.2610	-.2650	-.2620			-.3010					
70.000		-.0420	.0840	.1040	.1200	-.0900	-.1640	-.1450							
90.000		-.0610	.1300	.1370	.0570	-.1000	-.1580	-.1450							
105.000				.1400	-.0910	-.1150	-.1590	-.1590							
110.000									-.2810						
120.000		-.0880	.1840	.1630	-.2380	-.2890	-.1970	-.2120	-.2510						
135.000				.4310	.3030	-.3400	-.3720	-.3970							
150.000		-.2520	.0780	.2690	.2840	.0080	-.1240	-.2160							
165.000		-.1900		.2640	.3110	-.0150	-.0960	-.3140							
180.000		-.2460	-.0240	.1350											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB13) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2560	.7730	.0000	-.4310	-.1620	-.0500			.1010		-.0590	-.1490	-.2440	-.3520	-.4180
20.000			.2630	-.3460	-.1840	-.1090			.1230		-.0380				
40.000			.4620	-.1510	-.0020	-.1270			-.1670		-.1170	-.1730	-.1830	-.2010	-.1290
55.000			.5600	.0280	.1960	.2230			.1830		.1280				
70.000			.5890	.1000	.2700	.3050			.2380		.1270	-.3190	-.2320	-.0380	-.0310
90.000		1.1200	.5720	.1430	.3360	.3570			.2680		.1210	-.3950	-.3200	-.0450	-.0510
120.000			.5440	.2670	.4300	.5120			.3640		.1110	-.4210	-.2280	-.0880	-.0540
142.000										-.2420					
150.000			.4700	.3030	.4460	.7480			.5150		-.2510	-.2360	-.2270	-.1660	-.0780
157.000								.7810							
162.000									.4320						
165.000											-.4120	-.1960	-.2180	-.1600	-.0740
169.000									.2980						
172.000							.9440								
180.000	1.2560	.8460	.2540	.2380	.3430	.7890			.5500		-.7270	-.3420	-.4450	-.3380	-.3240

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1340							.0160		-.1400
40.000	.2450	.3700		-.0720	-.0730	-.3980	-.3270			-.1750
70.000		.0640	-.0620	.1360	.2100	.0130	-.0690	.1110		
90.000		.0840	.0520	.2230	.1680	-.0010	-.0680	.1210		
105.000				.2880	.1320	-.0090	-.0610	.0650		
110.000									-.1580	
120.000		.0530	.2540	.5500	.0520	-.1010	.0250	.0270	-.0320	
135.000				.5660	.2690	.0410	.1390	.1030		
150.000		.0220	.2890	.3480	.1500	.1830	.2190	.0960		
165.000		.0550		.4090	.3740	.2820	.2630	-.1450		
180.000		-.2080	.1350	.2260						

ANES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB13)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2970	.8020	.0000	-.4470	-.2600	.2010			.1110		-.0080	-.1190	-.2090	-.3190	-.0660
20.000			.2230	-.3910	-.2080	.1890			.1130		-.0160				
40.000			.3490	-.2690	.0090	.1010			.0290		-.1010	-.1580	-.1940	-.2420	-.1510
55.000			.4070	-.1880	.1300	.2130			.1590		.0050				
70.000			.4170	-.1540	.1640	.2440			.1820		-.0240	-.3740	-.3210	-.1010	-.0380
90.000		.9920	.3960	-.1090	.2330	.2680			.1810		-.0590	-.4410	-.3890	-.1130	-.0530
120.000			.4040	.1120	.3370	.4180			.2240		-.0910	-.4740	-.2670	-.1360	-.0530
142.000										-.5350					
150.000			.3960	.2270	.4100	.7070			.4510		-.3480	-.2660	-.2540	-.1620	-.0730
157.000								.7100							
162.000									.3750						
165.000											-.6690	-.2540	-.2600	-.1640	-.0820
169.000									.3090						
172.000							.9640								
180.000	1.2970	.8700	.2580	.2410	.3020	.8380			.5780		-.7040	-.3910	-.3070	-.1850	-.1260

X/LB	.5873	.6626	.7380	.7869	.8283	.8948	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							-.0190		-.1280
40.000	.2080	.2780		-.1740	-.2000	-.4380	-.2930			-.2150
70.000		.0440	.0700	.1200	.1410	-.0510	-.1410	-.0560		
90.000		.0670	.1560	.1820	.0940	-.0640	-.1290	-.0640		
105.000				.2160	.0350	-.0730	-.1170	-.0940		
110.000									-.2600	
120.000		.0630	.3110	.4300	-.0530	-.1460	-.0320	-.0680	-.1790	
135.000				.6770	.2890	-.1020	.0570	.0100		
150.000		.0480	.3450	.4360	.2770	.0340	.1200	.0090		
165.000		.0540		.4630	.4330	.1450	.1490	-.2170		
180.000		.0120	.2860	.3830						

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2820	.8090	.0000	-.4740	-.2250	.2030			.1350		.0160	-.1000	-.1810	-.2800	.0700
20.000			.1730	-.4340	-.2770	.1950			.1320		-.0040				
40.000			.2330	-.3820	-.1740	.1670			.0820		-.0770	-.1580	-.2240	-.3010	.0180
55.000			.2530	-.3430	.1630	.2000			.1130		-.0680				
70.000			.2480	-.3380	.1640	.1930			.1190		-.1370	-.4220	-.3830	-.1480	-.0510
90.000		.8310	.2320	-.2960	.1750	.1660			.0940		-.1630	-.4800	-.4360	-.1410	-.0660
.000			.2740	-.0680	.2420	.3040			.0750		-.2350	-.5200	-.3140	-.1610	-.0710

AMES 11-707 IA9 OEA - S3 + T9 ORBITER FUSELAGE (R2MB13)

MACH (1) = 1.10 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6430					
150.000			.3250	.1550	.3600	.6340			.3900		-.4340	-.3480	-.2420	-.1720	-.0770
157.000								.6010							
162.000									.2880						
165.000											-.7430	-.3130	-.2030	-.1550	-.0770
169.000									.3060						
172.000							.9470								
180.000	1.2820	.8880	.2700	.2570	.4140	.8560			.5920		-.6650	-.5160	-.1990	-.1530	-.0710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							.0030		-.1040
40.000	.1650	.1640		-.2800	-.2360	-.3120	-.2740			-.2310
70.000		.0670	.1220	.0900	.0830	-.1170	-.1820	-.1270		
90.000		.0880	.1890	.1310	.0210	-.1270	-.1670	-.1460		
105.000				.1380	-.0410	-.1270	-.1620	-.1690		
110.000									-.3180	
120.000		.0860	.3230	.2690	-.1680	-.2080	-.1210	-.1440	-.2530	
135.000				.7150	.2660	-.2480	-.1050	-.0980		
150.000		.0640	.3660	.5360	.3760	-.0580	-.0690	-.0990		
165.000		.0560		.5040	.4480	.0380	-.0060	-.3110		
180.000		.0930	.3330	.4340						

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2750	.8050	.0000	-.4490	-.2500	.2070			.1170		-.0050	-.1150	-.2130	-.3200	-.0040
20.000			.1080	-.4880	-.3180	.1900			.1080		-.0300				
40.000			.1070	-.4640	-.3060	.1700			.0800		-.0960	-.2110	-.2940	-.3730	.0270
55.000			.0900	-.4860	-.2840	.1590			.0640		-.1310				
70.000			.0720	-.4920	-.1350	.1220			.0560		-.2270	-.5070	-.4700	-.1690	-.0590
90.000		.6930	.0640	-.4440	-.0620	.0470			.0120		-.2950	-.5640	-.5130	-.1790	-.0770
120.000			.1380	-.2420	.0540	.1700			-.0760		-.3910	-.6120	-.3570	-.2330	-.1100
142.000										-.7300					
150.000			.2410	.0450	.2520	.5250			.289		-.6310	-.4670	-.2380	-.2120	-.1110
157.000								.4540							
162.000									.1770						
165.000											-.8030	-.4680	-.1900	-.2180	-.1550
169.000									.2740						
172.000							.8850								

AMES 11-707 IA9 OA + 33 + T9 ORBITER FUSELAGE (RBMB13)

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2750	.8770	.2620	.2290	.3830	.8300			.5670		-.6760	-.3910	-.2810	-.1950	-.1250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1920							-.0220		-.1470
40.000	.1350	-.0300		-.2210	-.2060	-.2170	-.2350			-.2710
70.000		.1050	.1350	.0750	.0510	-.1660	-.2400	-.2050		
90.000		.1260	.1910	.1060	-.0120	-.1810	-.2400	-.2120		
105.000				.0720	-.1460	-.1900	-.2410	-.2250		
110.000									-.3680	
120.000		.1210	.3020	.1260	-.2910	-.3120	-.2220	-.2300	-.3240	
135.000				.7040	.2030	-.3910	-.3600	-.2570		
150.000		.0930	.3380	.4980	.3960	-.0900	-.1780	-.2520		
165.000		.0210		.4710	.4370	-.0660	-.1200	-.4070		
180.000		.0090	.2990	.3830						

MACH (1) = 1.102 BETAT (5) = 8.290

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2330	.7700	.0000	-.4280	-.1800	-.1050			.1170		-.0310	-.1440	-.2440	-.3480	-.3810
20.000			.0360	-.5280	-.2150	.1140			.0940		-.0800				
40.000			-.0230	-.5480	-.4250	.1470			.0720		-.1480	-.2640	-.3730	-.4810	-.0850
55.000			-.0720	-.6080	-.4430	.0900			.0490		-.1840				
70.000			-.1090	-.6230	-.4350	.0060			.0140		-.2890	-.5680	-.5280	-.2020	-.0570
90.000		.5190	-.1020	-.5700	-.2590	-.0200			-.0700		-.3710	-.6260	-.5340	-.2210	-.0820
120.000			-.0070	-.3830	-.1240	.0400			-.2460		-.5400	-.6660	-.3830	-.3170	-.1690
142.000										-.7930					
150.000			.1380	-.0520	.1120	.3850			.1370		-.7260	-.5360	-.3170	-.2540	-.2240
157.000								.3000							
162.000									.0750						
165.000											-.8260	-.4780	-.4020	-.3890	-.3220
169.000									.2240						
172.000							.7730								
180.000	1.2330	.8420	.2320	.1940	.3200	.7540			.5100		-.6680	-.3800	-.4230	-.3370	-.3250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1240							-.0070		-.1810
40.000	.0840	-.0180		-.2670	-.2820	-.2840	-.2770			-.2770

DATE 13 SEP 78 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

MACH (1) = 1.. BETAT (5) = 8.290

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1250	.1810	.0550	.0450	-.2130	-.2830	-.2590		
90.000		.1140	.1670	.0930	-.0300	-.2200	-.2790	-.2530		
103.000				.0880	-.1870	-.2310	-.2840	-.2790		
110.000									-.3790	
120.000		.1210	.2610	.1290	-.3580	-.3760	-.3000	-.3220	-.3610	
133.000				.5150	.2350	-.4670	-.5110	-.5040		
150.000		-.0820	.1940	.3010	.2370	-.1170	-.2520	-.3400		
155.000		-.0520		.3100	.2660	-.1610	-.2340	-.4040		
180.000		-.1960	.1100	.2190						

MACH (2) = 1.245 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3955	.5120
PHI															
.000	1.3040	.6870	.0000	-.2410	-.0690	-.2480			-.1890		.1660	.0540	-.0730	-.2020	-.3260
20.000			.4230	-.1460	-.0550	-.2300			-.0740		.1040				
40.000			.6160	.0390	.1330	-.2160			-.1050		-.1000	-.0850	-.0170	-.1100	-.0950
55.000			.7020	.1790	.2950	.1170			.2060		.1670				
70.000			.7170	.2170	.3360	.2430			.2800		.1480	-.1730	-.1390	.0160	.0160
90.000		1.1940	.6760	.2110	.3800	.5430			.3210		.1160	-.2320	-.2060	.0050	.0000
120.000			.5990	.2760	.4370	.5440			.4500		.0630	-.2760	-.1480	-.0310	-.0180
142.000										-.1450					
150.000			.5080	.2810	.4270	.7930			.6090		-.1830	-.1460	- 1590	-.1100	-.0460
157.000								.8540							
162.000									.5280						
165.000											-.3335	-.1240	-.1360	-.1120	-.0430
169.000									.3920						
172.000							1.0050								
180.000	1.2040	.8700	.3030	.2170	.3310	.8350			.6250		-.5530	-.2570	-.3240	-.3820	-.3[illegible]

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2960							.0300		-.1120
40.000	-.1090	.4870		.0400	.0090	-.2490	-.5460			.0060
70.000		-.0790	-.0320	-.0040	.1800	.0580	-.0220	-.0200		
90.000		-.0590	.0030	.1590	.1050	.0550	-.0500	-.0230		
105.000				.2290	.1390	.0550	-.0730	-.0050		
110.000									-.1210	
120.000		-.0660	.0430	.5640	.1110	-.0420	-.0270	.0850	-.0200	
135.000				.5310	.2950	-.1520	.1930	.1960		
150.000		-.0740	.1310	.2680	.1540	.1570	.2790	.1850		

MACH (2) = 1.245 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0550		.3480	.4080	.2920	.3190	-.0340		
180.000		-.2950	-.0630	.1110						

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0539	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3410	.9360	.0000	-.2420	-.0820	-.1070			-.0690		.1890	.0490	-.0690	-.1850	-.2780
20.000			.3880	-.1760	-.0540	-.1370			-.0360		.1790				
40.000			.5110	-.0610	.0880	-.1980			-.1160		.0730	-.0070	-.0520	-.1460	-.1700
55.000			.5530	.0030	.2180	.0700			.0990		.0730				
70.000			.5550	.0140	.3520	.1930			.1340		.0290	-.2440	-.1810	-.0460	-.0220
90.000		1.0730	.5150	.0150	.3550	.2830			.2010		-.0520	-.2850	-.2500	-.0490	-.0290
120.000			.4890	.0900	.3870	.4820			.3160		-.1030	-.3600	-.1920	-.0860	-.0340
142.000										-.3620					
150.000			.4600	.1950	.4200	.7750			.5660		-.2450	-.2190	-.1850	-.1250	-.0470
157.000								.8040							
162.000									.4830						
165.000											-.3040	-.1980	-.1910	-.1220	-.0510
169.000									.4170						
172.000							1.0370								
180.000	1.3410	.9130	.3240	.2160	.3850	.9010			.6620		-.5060	-.3320	-.2590	-.1600	-.1010

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2270							.0120		-.1180
40.000	-.1490	.2810		-.0510	-.1090	-.2800	-.3020			-.0520
70.000		-.1190	-.0220	.0440	.1300	.0100	-.0650	-.0420		
90.000		-.0890	.0260	.1290	.0710	.0110	-.0830	-.0430		
105.000				.1670	.0550	.0120	-.0970	-.0470		
110.000									-.1510	
120.000		-.0560	.1250	.4480	.0540	-.1100	-.0140	.0160	-.0800	
135.000				.6650	.3340	-.1320	.0820	.0900		
150.000		-.0400	.1510	.3340	.2890	.1000	.1540	.0870		
165.000		-.0360		.3920	.4780	.2230	.1980	-.1170		
180.000		-.0720	.0940	.2820						

MACH (2) = 1.46 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3590	.9210	.0000	-.2780	-.0820	.0710			-.0240		.1740	.0310	-.0660	-.1610	-.2690
20.000			.3020	-.2610	-.1130	.0600			.0080		.1500				
40.000			.3630	-.1900	-.0429	-.1520			.0260		.0530	-.0330	-.1010	-.1880	-.2010
55.000			.3800	-.1700	-.0030	.0480			-.0080		.0280				
70.000			.3770	-.1740	-.0070	.1560			.0780		-.0600	-.3110	-.2740	-.1090	-.0430
90.000		.9340	.3480	-.1450	.0450	.2270			.1260		-.1610	-.3510	-.3360	-.1030	-.0520
120.000			.3620	-.0610	.2630	.3990			.1920		-.2070	-.4480	-.2540	-.1350	-.0480
142.000										-.4440					
150.000			.3920	.0850	.3730	.7150			.4980		-.3240	-.3050	-.2340	-.1400	-.0480
157.000								.7020							
162.000									.4010						
165.000											-.5730	-.2630	-.2040	-.1290	-.0480
169.000									.4100						
172.000							1.0220								
180.000	1.3590	.9280	.3270	.1840	.4160	.9220			.6740		-.4970	-.3980	-.1730	-.1330	-.0420

X/LB	.5073	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0840							.0370		-.1220
40.000	-.1440	.1600		-.1550	-.1890	-.3390	-.2750			-.1700
70.000		-.1240	.0180	.0630	.0990	-.0390	-.1010	-.0690		
90.000		-.0940	.0700	.1070	.0510	-.0350	-.1100	-.0780		
105.000				.1150	.0130	-.0500	-.1140	-.0890		
110.000									-.1990	
120.000		-.0630	.1740	.3040	-.0580	-.1790	-.0650	-.0710	-.1330	
135.000				.7470	.3370	-.1510	-.0880	-.0410		
150.000		-.0390	.1240	.4090	.4360	.0420	-.0090	-.0390		
165.000		-.0380		.4570	.5330	.1480	.0860	-.2220		
180.000		-.0320	-.0170	.4090						

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3470	.9110	.0000	-.2710	-.1060	-.1100			-.0700		.1930	.0400	-.0710	-.1930	-.2990
20.000			.2590	-.2930	-.1480	-.0090			-.0590		.1520				
40.000			.2430	-.2800	-.1560	-.0560			-.0300		.0470	-.0670	-.1600	-.2500	-.2650
55.000			.2160	-.3100	-.1860	.0340			.0190		-.0050				
70.000			.1980	-.3210	-.2390	.1100			.0290		-.1380	-.3690	-.3430	-.1540	-.0560
90.000		.7780	.1870	-.2880	-.1780	.1710			.0520		-.2570	-.4190	-.3930	-.1380	-.0620
120.000			.2330	-.1730	.0960	.2940			.0540		-.3030	-.5040	-.3260	-.2040	-.0810

DATE 13 SEP 73 TABULATED PRESSURE DATA - TAUR

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMB13)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5250					
150.000			.0120	.0310	.2600	.6160			.3990		-.4730	-.3720	-.2230	-.1710	-.0580
157.000								.5580							
162.000									.2940						
165.000											-.6080	-.3780	-.1710	-.1910	-.1310
169.000									.3830						
172.000							.9580								
180.000	1.3470	.9200	.3180	.2150	.3850	.8930			.6460		-.5000	-.3680	-.2480	-.1830	-.0980

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0580							.0140		-.1300
40.000	.0230	.0220		-.2150	-.2120	-.2620	-.2190			-.2250
70.000		-.1270	.0410	.0740	.0730	-.0760	-.1440	-.1050		
90.000		-.0980	.0620	.0870	.0330	-.0850	-.1570	-.1210		
105.000				.0890	-.0880	-.1070	-.1580	-.1340		
110.000									-.2460	
120.000		-.0960	.1480	.1800	-.1730	-.2910	-.1360	-.1490	-.1760	
135.000				.7000	.2910	-.2550	-.2600	-.2410		
150.000		-.0590	.0730	.2530	.3620	.0370	-.0730	-.1520		
165.000		-.1050		.2810	.4390	.0680	-.0220	-.2970		
180.000		-.0730	.0780	.2910						

MACH (2) = 1.247 BETAT (5) = 0.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.271.	.3200	.3953	.5120
PHI															
.000	1.2870	.8710	.0000	-.2420	-.0600	-.2540			-.1990		.1670	.0650	-.0730	-.1990	-.3360
20.000			.1870	-.3280	-.1170	-.2640			-.0850		.1410				
40.000			.1160	-.3650	-.2760	-.0680			-.0700		.0490	-.1150	-.2320	-.3420	-.3230
55.000			.0610	-.4210	-.3300	.0430			-.0140		-.0350				
70.000			.0250	-.4410	-.3680	.1250			.0140		-.2170	-.4110	-.4010	-.1720	-.0720
90.000		.6040	.0240	-.4060	-.3270	.1430			-.0050		-.3180	-.5030	-.4230	-.1620	-.0830
120.000			.0990	-.2690	-.0700	.1690			-.0770		-.3850	-.5470	-.3700	-.2480	-.1220
142.000										-.5790					
150.000			.2170	-.0070	.1410	.4650			.2550		-.5520	-.4390	-.2520	-.2150	-.2070
157.000								.4130							
162.000									.2080						
165.000											-.6210	-.4330	-.2790	-.3290	-.2860
169.000									.3430						
2.000							.8410								

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB13)

MACH (2) = .247 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2870	.8820	.2930	.2070	.3100	.8110			.5960		-.5110	-.2840	-.2980	-.2670	-.2910

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3090							.0220		-.1370
40.000	-.0510	-.0290		-.2500	-.2650	-.2680	-.2500			-.2840
70.000		.0040	.0590	.0810	.1020	-.0920	-.1650	-.1590		
90.000		-.0150	.1050	.1150	.0350	-.2130	-.1720	-.1620		
105.000				.1170	-.1070	-.1440	-.1730	-.1680		
110.000									-.2810	
120.000		-.0510	.1670	.1680	-.2280	-.3110	-.1990	-.2130	-.2390	
135.000				.4700	.3200	-.3170	-.3470	-.3760		
150.000		-.2670	.0570	.2410	.2240	-.0190	-.1440	-.2250		
165.000		-.1920		.2510	.3040	-.0410	-.1190	-.3220		
180.000		-.3010	-.0550	.1210						

AMES 11-707 IA9 OEA + 93 + T9 ORBITER FUSELAGE (RBNB14) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.300	1.2470	.7740	.0000	-.4560	-.1930	-.1070			.1050		-.0560	-.1510	-.2590	-.3570	-.3390
20.000			.2820	-.3370	-.2070	-.0900			.1250		-.0390				
40.000			.4790	-.1370	-.0210	-.1070			-.1590		-.1090	-.1620	-.1750	-.1990	-.1250
55.000			.5670	.0170	.1670	.2190			.1910		.1220				
70.000			.5910	.0720	.2270	.2900			.2390		.1100	-.3260	-.2460	-.0620	-.0430
90.000		1.1060	.5510	.0850	.2870	.3570			.2660		.0860	-.4070	-.3280	-.0880	-.0730
120.000			.4790	.1790	.3630	.4840			.3660		.0200	-.4490	-.2710	-.1340	-.0830
142.000										-.2640					
150.000			.3870	.1950	.3650	.7130			.4840		-.3180	-.2840	-.2740	-.2110	-.1040
157.000								.7340							
162.000									.3930						
165.000											-.4550	-.2450	-.2600	-.1960	-.1030
169.000									.2450						
172.000							.9160								
180.000	1.2470	.7770	.1610	.1290	.2640	.7570			.5070		-.7790	-.3980	-..	-.4240	-.3530

X/LB	.5075	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1540							.0200		-.1000
40.000	.2610	.3880		-.0020	.0030	-.4060	-.3160			-.1250
70.000		.0180	-.1180	.0730	.1830	-.0210	-.1260	-.0060		
90.000		.0430	-.0490	.1770	.1290	-.0390	-.1470	-.0540		
105.000				.2530	.0910	-.0400	-.1390	-.0750		
110.000									-.1440	
120.000		.0170	.1770	.5390	.0290	-.1400	-.0100	-.0240	-.1110	
135.000				.5110	.2200	-.1220	.0980	.0640		
150.000		.0150	.2460	.2960	.1020	.1090	.1720	.0600		
165.000		.0410		.3610	.3340	.2030	.2120	-.1730		
180.000		-.1560	.1200	.2130						

DATE 13 SEP ·· TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB14)

MACH (1) = 1... BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.8080	.0000	-.4560	-.2550	.1470			.1380		.0030	-.1060	-.2000	-.3020	-.0680
20.000			.2455	-.3720	-.2170	.1150			.1390		-.0090				
40.000			.3690	-.2480	.0020	-.0010			.0540		-.0750	-.1460	-.1880	-.2410	-.1550
55.000			.4180	-.1770	.1280	.0580			.1730		.0200				
70.000			.4200	-.1590	.1470	.1700			.1860		-.0200	-.3770	-.3240	-.1260	-.0560
90.000		.9810	.3820	-.1430	.2120	.2010			.1820		-.0630	-.4430	-.3980	-.1340	-.0660
120.000			.3580	.0240	.2920	.3810			.2170		-.1430	-.4900	-.2960	-.1650	-.0590
142.000										-.5540					
150.000			.3290	.1140	.3510	.6790			.4360		-.3950	-.3090	-.2830	-.1860	-.0700
157.000								.6880							
162.000									.3440						
165.000											-.7140	-.2960	-.2900	-.1830	-.0740
169.000									.2690						
172.000							.9420								
180.000	1.2860	.8130	.1840	.1500	.3270	.8130			.5430		-.7350	-.4430	-.3640	-.2120	-.1200

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							-.0130		-.0980
40.000	.2240	.2910		-.1150	-.1320	-.4410	-.2570			-.1790
70.000		.0150	-.0470	.0780	.1300	-.0690	-.1560	-.1030		
90.000		.0430	.0810	.1520	.0680	-.0830	-.1630	-.1110		
105.000				.1940	.0330	-.0820	-.1520	-.1280		
110.000									-.2820	
120.000		.0410	.2600	.3910	-.0540	-.1720	-.0710	-.0860	-.1890	
135.000				.6410	.2640	-.1450	.0270	-.0040		
150.000		.0390	.3110	.3990	.2430	-.0120	.0830	-.0150		
165.000		.0450		.4290	.4060	.1010	.1030	-.2370		
180.000		-.0080	.2510	.3510						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.8310	.0000	-.4640	-.2240	.1580			.1480		.0280	-.0850	-.1670	-.2690	.0750
20.000			.1850	-.4290	-.2740	.1560			.1500		.0000				
40.000			.2440	-.3540	-.1860	.1530			.1010		-.0620	-.1430	-.2140	-.2930	.0280
55.000			.2610	-.3340	-.0800	-.0590			.1320		-.0520				
70.000			.2550	-.3410	.1360	.0320			.1310		-.1230	-.4260	-.3870	-.1810	-.0630
90.000		.8480	.2230	-.3080	.1800	.0970			.0990		-.1630	-.4850	-.4450	-.1650	-.0720
120.000			.2400	-.1540	.2210	.2840			.0660		-.2650	-.5370	-.3440	-.1630	-.0600

DATE 13 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB14)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.6590					
142.000									.3690		-.4770	-.3930	-.2860	-.1840	-.0750
150.000			.2730	.0490	.3190	.6160									
157.000								.5850							
162.000									.2630						
165.000											-.7740	-.3580	-.2440	-.1710	-.0770
169.000									.2690						
172.000							.9300								
180.000	1.2950	.8410	.2000	.1660	.3610	.8340			.5610		-.7000	-.5620	-.2240	-.1750	-.0750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							.0100		-.0850
40.000	.1770	.1760		-.2350	-.2090	-.3840	-.2630			-.2130
70.000		.0240	.0580	.0580	.0740	-.1250	-.2030	-.1500		
90.000		.0490	.1290	.1090	.0080	-.1280	-.1960	-.1650		
105.000				.1190	-.0400	-.1270	-.1990	-.1890		
110.000									-.3190	
120.000		.0990	.2920	.2710	-.1570	-.2180	-.1470	-.1580	-.2560	
135.000				.6940	.2540	-.2560	-.1100	-.1050		
150.000		.0500	.3370	.4870	.3440	-.0810	-.0920	-.1250		
165.000		.0440		.4710	.4150	.0150	-.0360	-.3230		
180.000		.0340	.3020	.4070						

MACH (1) = 1.103 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2640	.8110	.0000	-.4390	-.2440	.1710			.1390		.0070	-.0970	-.2000	-.3040	-.0220
20.000			.1230	-.4770	-.3090	.1580			.1290		-.0240				
40.000			.1190	-.4500	-.3050	.1220			.1020		-.0840	-.1950	-.2810	-.3630	.0360
55.000			.0990	-.4750	-.3060	-.0980			.0900		-.1210				
70.000			.0780	-.4890	-.2580	-.0920			.0730		-.2180	-.5060	-.4700	-.2030	-.0690
90.000		.6880	.0810	-.4520	-.0580	.0320			.0690		-.2830	-.5650	-.5190	-.1920	-.0810
120.000			.1040	-.3210	.0310	.1740			-.0850		-.3910	-.6160	-.3980	-.2200	-.0900
142.000										-.7410					
150.000			.1850	-.0520	.2030	.2130			.2710		-.6510	-.5280	-.2580	-.2310	-.1120
157.000								.4458							
162.000									.1340						
165.000											-.8210	-.5130	-.2170	-.2310	-.1460
169.000									.2380						
72.000							.6870								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB14)

MACH (1) = 1.150 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2640	.8280	.1860	.1360	.3240	.8040			.5300		-.7030	-.4230	-.3390	-.2170	-.1270

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							-.0150		-.1110
40.000	.1460	-.0160		-.1870	-.2070	-.2110	-.2160			-.2460
70.000		.0790	.1100	.0530	.0350	-.1790	-.2630	-.2330		
90.000		.0990	.1660	.0890	-.0310	-.1900	-.2630	-.2350		
105.000				.0670	-.1440	-.1970	-.2640	-.2500		
110.000									-.3620	
120.000		.1150	.2890	.1500	-.2720	-.3200	-.2360	-.2410	-.3250	
135.000				.6910	.1950	-.3830	-.3430	-.2570		
150.000		.0710	.3140	.4340	.3590	-.1170	-.2070	-.2600		
165.000		.0280		.4560	.4150	-.0940	-.1430	-.4090		
180.000		.0030	.2600	.3440						

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2370	.7740	.0000	-.4640	-.1950	-.1280			.1250		-.0240	-.1370	-.2490	-.3500	-.2390
20.000			.0520	-.5220	-.2340	.0510			.1040		-.0760				
40.000			-.0110	-.5500	-.4250	.0880			.0740		-.1510	-.2690	-.3890	-.4790	-.0680
55.000			-.0660	-.6060	-.4780	-.0540			.0480		-.1700				
70.000			-.1130	-.6260	-.4790	-.0260			.0040		-.2760	-.5760	-.5460	-.2370	-.0310
90.000		.5130	-.1170	-.5830	-.4200	-.0130			-.1150		-.3710	-.6280	-.5750	-.2430	-.0580
120.000			-.0410	-.4340	-.1550	.0530			-.2280		-.5540	-.6800	-.4030	-.3270	-.1190
142.000										-.8020					
150.000			.0810	-.1240	.0600	.3770			.1210		-.7440	-.5790	-.3570	-.2850	-.2310
157.000								.2920							
162.000									.0550						
165.000											-.8410	-.5320	-.4260	-.4100	-.3290
169.000									.1950						
172.000							.7560								
180.000	1.2370	.7920	.1550	.1150	.2570	.7330			.4780		-.6960	-.4150	-.4340	-.4110	-.3840

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0013	1.0392
PHI										
.000	.1400							.0020		-.1080
40.000	.0870	-.0060		-.2600	-.2750	-.2790	-.2590			-.2690

AMES 11-707 IA9 CBA + S3 + T9 ORBITER FUSELAGE (RBMB14)

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1060	.0990	.0310	.0290	-.2180	-.2920	-.2840		
90.000		.1030	.1470	.0750	-.0470	-.2310	-.3020	-.2920		
105.000				.0590	-.1930	-.2390	-.3030	-.3050		
110.000									-.3760	
120.000		.1090	.2410	.0970	-.3460	-.3960	-.3040	-.3300	-.3610	
135.000				.5650	.2300	-.4760	-.4960	-.4710		
150.000		-.0930	.1240	.2500	.1890	-.1500	-.2800	-.3670		
165.000		-.3150		.2770	.2730	-.1870	-.2570	-.4010		
180.000		-.1780	.1160	.2170						

MACH (2) = 1.246 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.9100	.0000	-.2390	-.0640	-.2530			-.2520		.1790	.0810	-.0510	-.1960	-.3310
20.000			.4380	-.1370	-.0550	-.2410			-.1850		-.0390				
40.000			.6330	.0540	.1320	-.2180			-.2150		-.0710	-.0770	.0120	-.1020	-.1020
55.000			.7100	.1910	.2870	.0930			.1750		.1730				
70.000			.7200	.2160	.3170	.2110			.2510		.1500	-.1710	-.1300	-.0070	-.0090
90.000		1.1800	.6620	.1840	.3570	.3140			.2960		.1190	-.2300	-.2090	-.0140	-.0310
120.000			.5600	.2070	.3960	.5140			.4400		.0030	-.2780	-.1890	-.0630	-.0550
142.000										-.1690					
150.000			.4570	.1880	.3730	.7630			.5830		-.2130	-.1830	-.1920	-.1390	-.0790
157.000								.8310							
162.000									.4980						
165.000											-.3550	-.1680	-.1640	-.1370	-.0670
169.000									.3500						
172.000							.9810								
180.000	1.2990	.8230	.2390	.1400	.2730	.8070			.5900		-.5680	-.2960	-.3490	-.3250	-.3360

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0980							.0460		-.1050
40.000	-.1130	.4330		.0920	.0380	-.2410	-.5490			.0220
70.000		-.0970	-.0560	-.0760	.1560	.0330	-.0460	-.0500		
90.000		-.0810	-.0370	.1400	.0710	.0350	-.0770	-.0710		
105.000				.2240	.1000	.0350	-.1040	-.0720		
110.000									-.1410	
120.000		-.0980	-.0090	.5750	.1130	-.0740	-.0750	.0500	-.0410	
135.000				.4740	.2620	-.1860	.1460	.1490		
90.000		-.1080	.1110	.2290	.1290	.0920	.2380	.[illegible]40		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM814)

MACH (2) = [illegible] BETAT (1) = -8.140

SECTION (1)ORBITER USELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6627	.7380	.7869	.8283	.8848	.9262	.9839	1.0015	1.0392
PHI										
165.000		-.0830		.3120	.3910	.2400	.2780	-.0550		
180.000		-.2970	-.0440	.1350						

MACH (2) = 1.244 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3020	.9540	.0000	-.2390	-.0860	-.1530			-.1290		.2060	.0760	-.0480	-.1730	-.2790
20.000			.3970	-.1770	-.0580	-.1820			-.1130		.1750				
40.000			.5190	-.0540	.0670	-.2070			-.1420		-.0570	-.0010	-.0250	-.1390	-.1710
55.000			.5620	.0070	.1730	.0480			.0110		.0840				
70.000			.5520	.0110	.1960	.1650			.1220		-.0470	-.2520	-.1910	-.0690	-.0540
90.000		1.0630	.5020	-.0010	.3780	.2610			.1970		-.0640	-.2960	-.2870	-.0680	-.0610
120.000			.4530	.0270	.3640	.4620			.3170		-.1300	-.3810	-.2280	-.1100	-.0600
142.000										-.3760					
150.000			.4120	.0900	.3740	.7510			.5430		-.2740	-.2620	-.2320	-.1640	-.0720
157.000								.7850							
162.000									.4540						
165.000											-.5250	-.2310	-.2340	-.1530	-.0740
169.000									.3760						
172.000							1.0150								
180.000	1.3020	.8680	.2670	.1030	.3300	.8730			.6270		-.5290	-.3690	-.2960	-.1960	-.1200

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0300							.0120		-.1040
40.000	-.1170	.3170		-.0150	-.0740	-.2860	-.2920			-.0370
70.000		-.1280	-.0690	-.0100	.1060	-.0140	-.0900	-.0810		
90.000		-.0970	-.0110	.1040	.0460	-.0160	-.1140	-.0920		
105.000				.1630	.0430	-.0140	-.1320	-.0910		
110.000									-.1740	
120.000		-.0780	.0870	.4160	.0410	-.1360	-.0600	-.0210	-.0940	
135.000				.6150	.3030	-.1600	.0450	.0620		
150.000		-.0600	.1450	.3040	2550	.0560	.1140	.0550		
165.000		-.0550		.3620	.4450	.1810	.1580	-.1440		
180.000		-.1020	.1070	.2610						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB14)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3340	.9540	.0000	-.3250	-.1670	.0530			-.0670		.1590	.0560	-.0470	-.1410	-.2620
20.000			.2890	-.3150	-.1890	.0450			-.0620		.0860				
40.000			.3660	-.2210	-.1160	-.1210			-.0420		-.0400	-.0370	-.0810	-.1690	-.2030
55.000			.3820	-.1860	-.0690	.0480			.0370		.0190				
70.000			.3720	-.1890	-.0730	.1490			.0810		-.1090	-.3230	-.3020	-.1290	-.0810
90.000		.9230	.3310	-.1650	-.0390	.2210			.1320		-.1750	-.3970	-.3570	-.1160	-.0660
120.000			.3220	-.0980	.2030	.3920			.2010		-.2250	-.4660	-.3130	-.1640	-.0850
142.000										-.4500					
150.000			.3400	-.0130	.2900	.6970			.4770		-.3460	-.3390	-.2710	-.1700	-.0670
157.000								.6830							
162.000									.3740						
165.000											-.5940	-.3000	-.2400	-.1690	-.0650
169.000									.3740						
172.000							1.0000								
180.000	1.3340	.8750	.2680	.0930	.3220	.8960			.6370		-.5240	-.4300	-.2030	-.1800	-.0590

X/LB	.6873	.8626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.7480							.0290		-.0900
40.000	-.0540	.2050		-.1140	-.1570	-.3360	-.2720			-.1540
70.000		-.1140	-.0310	.0130	.0750	-.0640	-.1290	-.1110		
90.000		-.0680	.0330	.0800	.0160	-.0540	-.1420	-.1140		
105.000				.0990	.0020	-.0720	-.1490	-.1230		
110.000									-.2160	
120.000		-.0630	.1610	.2910	-.0470	-.2030	-.0900	-.0970	-.1470	
135.000				.6930	.3240	-.1640	-.0970	-.0580		
150.000		-.0510	.1600	.3860	.4050	.0160	-.0170	-.0640		
165.000		-.0500		.4270	.4670	.1240	.0530	-.2360		
180.000		-.0460	.0040	.3830						

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1953	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3430	.9310	.0000	-.2410	-.1020	-.1390			-.1300		.2090	.0800	-.0440	-.1700	-.2900
20.000			.2700	-.2850	-.1490	-.0570			-.1130		.1700				
40.000			.2990	-.2690	-.1540	-.0860			-.0800		.0500	-.0660	-.1370	-.2270	-.2620
55.000			.2300	-.2980	-.1810	.0270			.0060		-.0630				
70.000			.2090	-.3170	-.2200	.1205			.0370		-.1870	-.3770	-.3400	-.1720	-.0690
90.000		.7730	.1820	-.2910	-.1840	.1720			.0610		-.2450	-.4470	-.3970	-.1510	-.0730
90.000			.2060	-.1960	.0690	.3010			.0690		-.2970	-.5020	-.3840	-.2080	-.0780

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB14)

MACH (2) = 1. BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5270					
150.000			.270	-.0470	.2210	.6060			.3810		-.4710	-.3830	-.2510	-.2180	-.0640
157.000								.5520							
162.000									.2740						
165.000											-.6030	-.3880	-.2030	-.2200	-.1340
169.000									.3540						
172.000							.9430								
180.000	1.3430	.8770	.2660	.1150	.3310	.8690			.6150		-.5070	-.3760	-.2820	-.1860	-.1210

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0120							.0070		-.0920
40.000	.0560	.0350		-.1880	-.2020	-.2800	-.2130			-.1980
70.000		-.0960	.0050	.0470	.0530	-.1000	-.1590	-.1390		
90.000		-.0810	.0640	.0680	.0160	-.0970	-.1810	-.1540		
105.000				.0580	-.0840	-.1340	-.1780	-.1660		
110.000									-.2340	
120.000		-.0840	.1510	.2120	-.1560	-.3070	-.1570	-.1640	-.1720	
135.000				.7270	.2780	-.2590	-.2600	-.2320		
150.000		-.0610	.0640	.3220	.4050	.0020	-.1010	-.1610		
165.000		-.1040		.3520	.4680	.0430	-.0460	-.3020		
180.000		-.0970	.0810	.2730						

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	.8930	.0000	-.2440	-.0660	-.2620			-.2640		.1710	.0980	-.0380	-.1820	-.3280
20.000			.1390	-.3200	-.1220	-.2840			-.1880		.1350				
40.000			.1280	-.3590	-.2760	-.1200			-.1000		.0430	-.0860	-.2050	-.3370	-.2820
55.000			.0680	-.4180	-.3310	.0330			-.0220		-.0730				
70.000			.0290	-.4390	-.3740	.1180			.0120		-.2430	-.4040	-.3840	-.1980	-.0790
90.000		.6020	.0210	-.4110	-.3330	.1480			.0010		-.2940	-.4990	-.4150	-.1790	-.0880
120.000			.0810	-.2870	-.0880	.1980			-.0690		-.3660	-.5290	-.3940	-.2560	-.1210
142.000										-.5870					
150.000			.1860	-.0590	.1070	.4550			.2420		-.5430	-.4330	-.2720	-.2360	-.2180
157.000								.4060							
162.000									.1920						
165.000											-.6050	-.4330	-.2930	-.3400	-.2890
169.000									.3180						
172.000							.8240								

AMES 11-7D7 IA9 CBA + S3 + T9 ORBITER FUSELAGE (RBNB14)

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE C_P

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2930	.8440	.2490	.1490	.2600	.7900			.5690		-.5170	-.2960	-.3150	-.3070	-.3270

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1720							.0180		-.1230
40.000	-.0340	-.0210		-.2250	-.2620	-.2660	-.2380			-.2760
70.000		.0120	.0380	.0570	.0890	-.0960	-.1730	-.1760		
90.000		-.0020	.0840	.1020	.0130	-.1180	-.1810	-.1750		
105.000				.0830	-.1140	-.1410	-.1800	-.1880		
110.000									-.2880	
120.000		-.0170	.1320	.1620	-.2230	-.3350	-.2050	-.2140	-.2500	
135.000				.5380	.3150	-.2960	-.3260	-.3590		
150.000		-.2560	.0090	.1920	.2000	-.0480	-.1600	-.2370		
165.000		-.1860		.2340	.3160	-.0550	-.1310	-.3330		
180.000		-.3230	-.0680	.1300						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB15) : 04 AUG 73 :

REFERENCE D.

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .000
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0359	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2280	.8190	.0000	-.4310	-.2030	-.2860			.1170		-.0150	-.1250	-.2400	-.3280	-.3880
20.000			.3110	-.3180	-.2100	-.0850			.0430		-.0020				
40.000			.5020	-.1200	-.0180	-.0790			-.1200		-.0830	-.1890	-.1500	-.1830	-.3160
55.000			.5870	.0240	.1540	.2100			.2100		.1350				
70.000			.5870	.0560	.1990	.2700			.2510		.1120	-.3120	-.2390	-.0940	-.2690
90.000		1.0960	.5360	.0330	.2580	.3210			.2780		.0790	-.3950	-.3150	-.1070	-.3030
120.000			.4320	.0980	.3100	.4660			.3750		-.0280	-.4510	-.3000	-.1620	-.3320
142.000										-.2710					
150.000			.3270	.0800	.3000	.6950			.4680		-.3430	-.3040	-.3010	-.2340	-.1490
157.000								.7380							
162.000									.3710						
165.000											-.4760	-.2590	-.2850	-.2150	-.1200
169.000									.2160						
172.000							.9040								
180.000	1.2280	.7370	.1020	.0320	.2090	.7410			.4830		-.7920	-.4230	-.5030	-.5060	-.3950

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9539	1.0015	1.0392
PHI										
.000	.1660							.0460		-.0380
40.000	.2800	.4120		.1330	.0160	-.3730	-.3040			-.1150
70.000		-.0100	-.1070	.0740	.1870	-.0270	-.1320	-.0970		
90.000		.0200	-.0460	.1830	.1240	-.0440	-.1580	-.0990		
105.000				.2590	.0800	-.0470	-.1730	-.1140		
110.000									-.2370	
120.000		.0020	.1610	.5500	.0370	-.1460	-.0580	-.0430	-.1440	
135.000				.4830	.2040	-.2230	.0660	.0440		
150.000		.0640	.2350	.2810	.0830	.0690	.1460	.0450		
165.000		.0820		.3440	.3230	.1600	.1820	-.1630		
180.000		-.0520	.1320	.2330						

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	.8320	.0000	-.4630	-.2540	-.1660			.1640		.0310	-.0750	-.1730	-.2690	-.1310
20.000			.2610	-.3670	-.2220	-.2530			.1700		.0270				
40.000			.7870	-.2370	-.0650	-.3500			.0890		-.0440	-.1170	-.1540	-.2030	-.1500
55.000			.4320	-.1680	.1360	-.0810			.1990		.0480				
70.000			.4250	-.1590	.1500	.0500			.1960		-.0010	-.3650	-.3070	-.1410	-.0900
90.000		.9770	.3700	-.1680	.2040	.1500			.1830		-.0470	-.4340	-.3840	-.1400	-.0990
120.000			.3190	-.0950	.2610	.3590			.2130		-.1680	-.4920	-.3260	-.1800	-.0840
142.000										-.5820					
150.000			.2740	-.0100	.3020	.6560			.4180		-.4250	-.3410	-.3140	-.2130	-.0820
157.000								.6730							
162.000									.3190						
165.000											-.7280	-.3150	-.3160	-.2090	-.0760
169.000									.2340						
172.000							.9280								
180.000	1.2820	.7730	.1290	.0250	.2710	.7910			.5110		-.7510	-.4740	-.3950	-.2290	-.1200

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2080							-.0070		-.0900
40.000	.2380	.3110		-.1110	-.0610	-.4130	-.2500			-.1550
70.000		-.0060	-.1170	.0360	.1190	-.0850	-.1830	-.1520		
90.000		.0260	.0010	.1210	.0380	-.1010	-.2080	-.1520		
105.000				.1690	-.0010	-.1030	-.2080	-.1630		
110.000									-.3020	
120.000		.0270	.2270	.4140	-.0590	-.1930	-.1220	-.1100	-.2080	
135.000				.5800	.2390	-.1960	-.0200	-.0230		
150.000		.0300	.2770	.3680	.2160	-.0470	.0410	-.0460		
165.000		.0440		.3890	.3560	.0640	.0560	-.2600		
180.000		-.0200	.2210	.3230						

MACH (1) = 1.103 BETAT (3) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.8420	.0000	-.4680	-.2350	-.0840			.1660		.0500	-.0570	-.1270	-.2350	.0720
20.000			.1650	-.4640	-.3030	-.1010			.1590		.0310				
40.000			.2440	-.3700	-.2160	-.1020			.1240		-.0360	-.1170	-.1770	-.2560	.0220
55.000			.2670	-.3380	-.1500	-.0800			.1360		-.0240				
70.000			.2550	-.3420	-.1180	.0170			.1420		-.1020	-.4230	-.3720	-.2020	-.0790
90.000		.8480	.2120	-.3250	.2030	.0940			.0960		-.1530	-.4810	-.4400	-.1790	-.0820
120.000			.2000	-.2480	.1960	.2770			.0620		-.2840	-.5450	-.3710	-.1620	-.0600

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB15)

MACH (1) = 1.103 BETAT (3) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
142.000										-.6640					
150.000			.2150	-.1000	.2760	.5980			.3500		-.5210	-.4330	-.3190	-.1870	-.0600
157.000								.5730							
162.000									.2390						
165.000											-.7960	-.4020	-.2880	-.1830	-.0640
169.000									.2360						
172.000							.9120								
180.000	1.2860	.7910	.1360	.0020	.3110	.8100			.5260		-.7250	-.6070	-.2420	-.1870	-.0630

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							.0090		-.0760
40.000	.1920	.1910		-.2070	-.1640	-.3510	-.2210			-.1970
70.000		-.0020	-.0240	.0280	.0550	-.1380	-.2290	-.1910		
90.000		.0330	.0700	.0830	-.0150	-.1460	-.2310	-.1860		
105.000				.0910	-.0530	-.1470	-.2280	-.2100		
110.000									-.3290	
120.000		.0490	.2500	.2660	-.1570	-.2460	-.1830	-.1660	-.2620	
135.000				.6510	.2340	-.2710	-.1460	-.1320		
150.000		.0550	.3010	.4270	.3150	-.1110	-.1250	-.1510		
165.000		.0500		.4360	.3770	-.0100	-.0740	-.3350		
180.000		.0500	.2610	.3710						

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2760	.8400	.0000	-.4230	-.2380	-.1850			.1670		.0300	-.0790	-.1810	-.2670	-.1130
20.000			.1360	-.4750	-.3100	-.1530			.1580		.0030				
40.000			.1300	-.4480	-.3030	-.1250			.1310		-.0630	-.1750	-.2570	-.3360	.0400
55.000			.1110	-.4740	-.3180	-.1200			.1050		-.1000				
70.000			.0800	-.4810	-.3510	-.0220			.0040		-.1970	-.5010	-.4600	-.2310	-.0820
90.000		.6860	.0490	-.4620	-.2790	.0320			-.0830		-.2770	-.5620	-.5130	-.1960	-.0870
120.000			.0720	-.3620	.0080	.1760			-.0730		-.4850	-.6210	-.4310	-.2020	-.0840
142.000										-.7480					
150.000			.1330	-.1550	.1550	.5040			.2530		-.6690	-.5650	-.2930	-.2290	-.1010
157.000								.4360							
162.000									.1350						
165.000											-.8400	-.5450	-.2830	-.2340	-.1280
169.000									.2090						
172.000							.8520								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB15)

MACH (1) = 1.097 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2760	.7830	.1330	.0440	.2640	.7820			.4990		-.7510	-.4640	-.3770	-.2360	-.1250
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2070							-.0100		-.0580					
40.000	.1520	-.0150		-.1690	-.1980	-.2160	-.1980			-.2280					
70.000		.0510	.0590	.0510	.0220	-.1860	-.1760	-.2510							
90.000		.0650	.1280	.0660	-.0410	-.1950	-.2770	-.2600							
105.000				.0630	-.1300	-.2060	-.2760	-.2770							
110.000									-.3790						
120.000		.1010	.2640	.1510	-.2560	-.3210	-.2420	-.2590	-.3370						
135.000				.6900	.1850	-.3840	-.3340	-.2560							
150.000		.1040	.2930	.4880	.3240	-.1420	-.2410	-.2770							
165.000		.0420		.4470	.4020	-.1150	-.1650	-.4140							
180.000		-.0130	.2100	.3080											

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2140	.6040	.0000	-.3940	-.2120	-.1600			.1250		-.0140	-.1280	-.2400	-.3320	-.3230
20.000			.0680	-.5140	-.2300	-.0930			.1120		-.0560				
40.000			.0030	-.5150	-.4210	-.1030			.0610		-.1300	-.2650	-.3840	-.4580	-.0650
55.000			-.0580	-.5990	-.4660	-.1020			.0490		-.1540				
70.000			-.1110	-.6010	-.5030	-.0320			-.0200		-.2630	-.5710	-.5490	-.2470	-.0140
90.000		.5130	-.1180	-.5910	-.4790	-.0080			-.1410		-.3720	-.6270	-.5830	-.2360	-.0530
120.000			-.0610	-.4630	-.1710	.0660			-.2110		-.5670	-.7030	-.4130	-.3080	-.1090
142.000										-.8080					
150.000			.0450	-.1880	.0230	.3760			.1150		-.7650	-.6100	-.3920	-.2970	-.2080
157.000								.2890							
162.000									.0420						
165.000											-.8540	-.5700	-.4430	-.4180	-.5000
169.000									.1750						
172.000							.7440								
180.000	1.2140	.7940	.1050	.0430	.2040	.7150			.4560		-.7150	-.4460	-.4750	-.4860	-.4110
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1990							.0020		-.0860					
40.000	.0980	.0340		-.2530	-.2560	-.2520	-.2420			-.2680					

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB15)

MACH (1) = 1.[illegible] BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0730	.0710	.0260	.0160	-.2210	-.3090	-.3010		
90.000		.0910	.1360	.0710	-.0540	-.2380	-.3190	-.3080		
105.000				.0500	-.1900	-.2470	-.3180	-.3200		
110.000									-.3800	
120.000		.0950	.2290	.0890	-.3390	-.4080	-.3080	-.3310	-.3690	
135.000				.7110	.2310	-.4440	-.4620	-.4140		
150.000		-.0500	.1520	.2280	.1080	-.2000	-.3080	-.3700		
165.000		-.0770		.3190	.3270	-.1920	-.2620	-.4300		
180.000		-.0720	.1260	.2230						

MACH (2) = 1.245 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.9100	.0000	-.2230	-.0520	-.2560			-.2850		.0380	.0820	-.0320	-.1800	-.3220
20.000			.4580	-.1220	-.0470	-.2470			-.2320		-.0130				
40.000			.6550	.0790	.1400	-.2230			-.2330		-.0650	-.0750	.0270	-.0810	-.0700
55.000			.7290	.2050	.2810	.0650			.1140		.1970				
70.000			.7280	.2190	.2970	.1740			.1800		.1660	-.1870	-.1460	-.0250	-.0320
90.000		1.1730	.6520	.1620	.3400	.2830			.2680		.0210	-.2430	-.2120	-.0370	-.0550
120.000			.5220	.1400	.3650	.4860			.4360		-.0380	-.2950	-.2250	-.1010	-.0870
142.000										-.1680					
150.000			.4100	.1070	.3310	.7410			.5610		-.2600	-.2480	-.2190	-.1610	-.1050
157.000								.8190							
162.000									.6740						
165.000											-.3930	-.2100	-.1930	-.1530	-.0850
169.000									.3170						
172.000							.9700								
180.000	1.2880	.7850	.2090	.0650	.2301	.7850			.5640		-.6020	-.3440	-.3770	-.3620	-.3720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
[illegible]	.0390							.0440		-.0970
40.000	-.0880	.4650		.0890	.0830	-.2200	-.5270			.0320
70.000		-.0980	-.1100	-.1440	.1250	.0040	-.0670	-.0740		
90.000		-.0950	-.0650	.1170	.0370	.0180	-.0990	-.1130		
105.000				.2060	.0880	.0190	-.1260	-.1340		
110.000									-.1530	
120.000		-.1160	-.0620	.5850	.1290	-.1040	-.1010	-.0050	-.0570	
135.000				.4230	.2350	-.2160	.0870	.1150		
150.000		-.1170	.0950	.1990	.1010	.0450	.1980	.1330		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM315)

MACH (2) = 1.245 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0890		.2820	.3580	.1950	.2390	-.0750		
180.000		-.2480	.0190	.1570						

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3280	.9590	.0000	-.2410	-.1060	-.1480			-.1470		.0660	.1080	-.0180	-.1430	-.2480
20.000			.4130	-.1780	-.0770	-.2060			-.1530		.1090				
40.000			.5350	-.0460	.0610	-.2050			-.2340		.0030	-.0520	.0080	-.1090	-.1540
55.000			.5770	.0210	.1460	.0260			-.0020		-.0220				
70.000			.5590	.0180	.1580	.1350			.1140		-.0620	-.2430	-.2060	-.0810	-.0690
90.000		1.0570	.4940	-.0040	.2150	.2390			.1970		-.0870	-.3610	-.2830	-.0770	-.0740
120.000			.4210	.0020	.3540	.4460			.3260		-.1540	-.4030	-.2840	-.1280	-.0740
142.000										-.3720					
150.000			.3690	.0170	.3400	.7310			.3260		-.3060	-.3130	-.2640	-.1820	-.0940
157.000								.7760							
162.000									.4320						
165.000											-.5480	-.2640	-.2620	-.1660	-.0910
169.000									.3460						
172.000							1.0010								
180.000	1.3280	.6220	.2200	.0370	.3110	.8490			.5970		-.5550	-.4020	-.3210	-.2200	-.1390

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0270							.0150		-.0990
40.000	-.1080	.3480		.0020	-.0160	-.2590	-.2830			-.0230
70.000		-.1780	-.0990	-.0710	.0870	-.0340	-.1060	-.1130		
90.000		-.1030	-.0460	.0820	.0070	-.0240	-.1340	-.1310		
105.000				.1450	.0340	-.0250	-.1540	-.1300		
110.000									-.1890	
120.000		-.0850	.0740	.4190	.0350	-.1550	-.0910	-.0540	-.1130	
135.000				.5290	.2860	-.1720	.0180	.0390		
150.000		-.0650	.1330	.2820	.2360	.0150	.0880	.0300		
165.000		-.0570		.3310	.3980	.1430	.1260	-.1640		
180.000		-.1210	.0290	.2690						

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB15)

MACH (2) = 1.2 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4070	.9560	.0000	-.3510	-.2370	.0050			-.1050		-.0920	.0890	-.0200	-.1080	-.2370
20.000			.2620	-.3560	-.2450	-.0080			-.1020		-.0760				
40.000			.3660	-.2440	-.1590	-.0090			-.1100		-.0570	-.0460	-.0450	-.1490	-.1890
55.000			.3930	-.1920	-.0920	.0560			.0190		-.0880				
70.000			.3860	-.1950	-.1060	.1400			.1040		-.1130	-.3620	-.3230	-.1440	-.0810
90.000		.9480	.3320	-.1800	-.0640	.2190			.1470		-.1850	-.4210	-.3600	-.1320	-.0830
120.000			.2890	-.1190	.1090	.3880			.2130		-.2340	-.4750	-.3540	-.1790	-.0810
142.000										-.4600					
150.000			.2950	-.0700	.2160	.6820			.4610		-.3670	-.3700	-.2960	-.2040	-.0700
157.000								.6750							
162.000									.3540						
165.000											-.6110	-.3280	-.2700	-.2080	-.0700
169.000									.3440						
172.000							.9820								
180.000	1.4070	.8240	.2150	.0300	.2390	.8730			.6060		-.5470	-.4560	-.2250	-.2110	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1070							.0240		-.0790
40.000	.0040	.2300		-.1170	-.1250	-.3270	-.2630			-.1200
70.000		-.1290	-.0640	-.0190	.0550	-.0750	-.1490	-.1420		
90.000		-.0920	.0040	.0610	-.0080	-.0690	-.1640	-.1420		
105.000				.0830	-.0070	-.0680	-.1720	-.1490		
110.000									-.2240	
120.000		-.0650	.1470	.2870	-.0440	-.2160	-.1100	-.1190	-.1670	
135.000				.6290	.3030	-.1760	-.1060	-.0720		
150.000		-.0470	.1600	.3500	.3660	-.0070	-.0390	-.0850		
165.000		-.0470		.3890	.4220	.1020	.0240	-.2500		
180.000		-.0470	.0350	.3520						

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3110	.9250	.0000	-.2550	-.0940	-.1250			-.1700		.1100	.0920	-.0370	-.1510	-.2740
20.000			.2610	-.3060	-.1360	-.0690			-.1490		.0970				
40.000			.2650	-.2780	-.1660	-.0670			-.1020		-.0760	-.0620	-.1190	-.2090	-.2500
55.000			.2390	-.2960	-.1940	.0090			-.0020		-.1330				
70.000			.2150	-.3150	-.2320	.1050			.0410		-.2070	-.4360	-.3630	-.1980	-.0820
90.000		.7670	.1770	-.2990	-.2010	.1680			.0670		-.2550	-.4810	-.4450	-.1680	-.0800
120.000			.1780	-.2170	-.0190	.3000			.0800		-.3190	-.5300	-.4170	-.2200	-.0800

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T3 ORBITER FUSELAGE (RBM315)

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5320					
150.000			.2280	-.1020	.1600	.5890			.3620		-.5000	-.4270	-.2800	-.2540	-.0740
157.000								.5380							
162.000									.2530						
165.000											-.6410	-.4290	-.2330	-.2470	-.1360
169.000									.3220						
172.000							.9180								
180.000	1.3110	.8250	.2130	.0390	.2650	.8370			.5790		-.5470	-.4180	-.3150	-.2170	-.1390

X/LB	.5873	.6626	.7380	.7869	.8263	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.0710							.0120		-.0800
40.000	.0790	.0460		-.1870	-.1920	-.2840	-.2040			-.1900
70.000		-.0800	-.0380	.0050	.0280	-.1200	-.1820	-.1750		
90.000		-.0760	.0280	.0510	-.0180	-.1120	-.1990	-.1810		
105.000				.0360	-.0730	-.1300	-.2000	-.1910		
110.000									-.2480	
120.000		-.0780	.1290	.1980	-.1490	-.3170	-.1750	-.1620	-.2000	
135.000				.7400	.2590	-.2650	-.2550	-.2280		
150.000		-.0600	.0610	.3410	.3780	-.0300	-.1360	-.1860		
165.000		-.0950		.4410	.4560	.0220	-.0660	-.3120		
180.000		-.1230	.0500	.2590						

MACH (2) = 1.246 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2780	.8970	.0000	-.2240	-.0620	-.2620			-.2850		.0600	.0780	-.0410	-.1750	-.3320
20.000			.2110	-.3190	-.0990	-.2770			-.2410		.1320				
40.000			.1410	-.3520	-.2650	-.1510			-.1410		.0380	-.1040	-.2390	-.3230	-.2210
55.000			.0300	-.4100	-.3290	-.0030			-.0420		-.1810				
70.000			.0330	-.4390	-.3690	.0910			.0080		-.2560	-.4720	-.4180	-.2350	-.0760
90.000		.5990	.0120	-.4200	-.3330	.1410			.0080		-.3160	-.5400	-.4750	-.2070	-.0810
120.000			.0510	-.3120	-.0980	.2080			-.0500		-.3970	-.5710	-.4330	-.2740	-.1040
142.000										-.6010					
150.000			.1350	-.1330	.0680	.4500			.2290		-.5690	-.4630	-.3040	-.2700	-.2190
157.000								.3950							
162.000									.1680						
165.000											-.6510	-.4930	-.3150	-.3520	-.2910
169.000									.2650						
?.000							.8000								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB15)

MACH (2. = 1.24 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
160.000	1.2760	.7890	.1810	.0640	.2100	.7550			.5300		-.5740	-.3600	-.3480	-.3700	-.3790
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0620							.0310		-.1170					
40.000	.0210	-.0250		-.2350	-.2370	-.2300	-.2140			-.2680					
70.000		-.0100	-.0150	.0170	.0570	-.1110	-.1930	-.2070							
90.000		.0020	.0470	.0810	-.0100	-.1260	-.2090	-.1990							
105.000				.0670	-.1160	-.1630	-.2090	-.2200							
110.000									-.2870						
120.000		-.0100	.1200	.1490	-.2210	-.3730	-.2200	-.2280	-.2590						
135.000				.7220	.2890	-.3150	-.3380	-.3580							
150.000		-.1720	-.0120	.1670	.7020	-.0570	-.1800	-.2440							
165.000		-.1420		.3220	.3640	-.0500	-.1410	-.3550							
180.000		-.2930	.0120	.1780											

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB16) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2360	.8210	.0000	-.4310	-.2170	-.4120			.0840		.0050	-.1080	-.2280	-.3140	-.3880
20.000			.3290	-.3110	-.2160	-.2970			-.0590		.0160				
40.000			.5280	-.1020	-.0200	-.1590			-.0970		-.0480	-.1060	-.1270	-.1550	-.1080
55.000			.6060	.0390	.1460	.1940			.2280		.1570				
70.000			.6020	.0620	.1790	.2520			.2640		.1250	-.3080	-.2230	-.0970	-.0820
90.000		1.0960	.5340	.0180	.2330	.3080			.2910		.0820	-.3970	-.2910	-.1230	-.1200
120.000			.4040	.0210	.2690	.4510			.3910		-.0420	-.4620	-.3330	-.1620	-.1710
142.000										-.2720					
150.000			.2860	-.0170	.2480	.6780			.4520		-.3680	-.3350	-.3390	-.2400	-.1890
157.000								.7290							
162.000									.3550						
165.000											-.4890	-.2790	-.3090	-.2170	-.1460
169.000									.1860						
172.000							.8690								
180.000	1.2360	.8960	.0570	-.0600	.1560	.7230			.4590		-.8230	-.4550	-.5210	-.5790	-.4100

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1700							.0490		-.1030
40.000	.2960	.4360		.1820	.0440	-.3820	-.2920			-.1170
70.000		-.0270	-.1850	.0460	.1710	-.0320	-.1370	-.1290		
90.000		-.0010	-.1030	.1510	.1090	-.0500	-.1720	-.1480		
105.000				.2390	.0770	-.0570	-.1870	-.1460		
110.000									-.2490	
120.000		-.0270	.1020	.5550	.0370	-.1510	-.1100	-.0630	-.1470	
135.000				.4350	.1730	-.2610	.0380	.0290		
150.000		.0210	.2000	.2380	.0510	.0220	.1240	.0250		
165.000		.0700		.3090	.3050	.1180	.1590	-.1970		
180.000		-.0430	.0920	.2130						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

MACH (1) ..098 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2810	.8550	.0000	-.4500	-.2700	-.1930			.1700		.0550	-.0460	-.1480	-.2440	-.2260
20.000			.2720	-.3660	-.2420	-.3090			.1730		.0490				
40.000			.4080	-.2220	-.0910	-.3780			.1140		-.0120	-.0800	-.1220	-.1780	-.1480
55.000			.4520	-.1480	.0650	-.0980			.2220		.0800				
70.000			.4360	-.1480	.1770	.0300			.2020		.0240	-.3520	-.2810	-.1580	-.1090
90.000		.9800	.3730	-.1700	.2150	.1360			.1870		-.0300	-.4270	-.3590	-.1530	-.1210
120.000			.2970	-.1600	.2420	.3480			.2300		-.1650	-.4910	-.3540	-.1920	-.1070
142.000										-.5500					
150.000			.2370	-.1010	.2610	.6400			.4020		-.4390	-.3600	-.3290	-.2170	-.0960
157.000								.6650							
162.000									.3000						
165.000											-.7360	-.3280	-.3260	-.2020	-.0860
169.000									.2030						
172.000							.9120								
180.000	1.2810	.7340	.0720	-.0880	.2230	.7690			.4840		-.7690	-.4930	-.4280	-.2360	-.1760

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							.0010		-.0960
40.000	.2500	.3350		-.0350	-.0080	-.4150	-.2340			-.1200
70.000		-.0210	-.1660	-.0030	.1060	-.0990	-.1940	-.1870		
90.000		.0150	-.0730	.0910	.0160	-.1090	-.2260	-.1820		
105.000				.1530	-.0190	-.1110	-.2350	-.1900		
110.000									-.3140	
120.000		.0120	.1730	.4260	-.0600	-.2070	-.1490	-.1260	-.2140	
135.000				.5480	.2060	-.2420	-.0400	-.0460		
150.000		.0310	.2380	.3130	.1690	-.0760	.0220	-.0650		
165.000		.0480		.3460	.3340	.0300	.0330	-.2670		
180.000		.0100	.2010	.3030						

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3270	.8220	.0000	-.5240	-.2540	-.1470			.1750		.0530	-.0490	-.1120	-.2100	.0600
20.000			.1190	-.5200	-.3400	-.1610			.1670		.0310				
40.000			.2280	-.4060	-.2490	-.1700			.1410		-.0260	-.0990	-.1690	-.2320	.0250
55.000			.2680	-.3520	-.1920	-.0480			.1860		-.0080				
70.000			.2690	-.3530	-.1880	.0380			.1460		-.0830	-.4300	-.3810	-.2200	-.0950
90.000		.8600	.2110	-.3380	-.1690	.1080			.0400		-.1530	-.4930	-.4490	-.1980	-.0970
120.000			.1760	-.2810	.1770	.2810			.0800		-.2980	-.5640	-.4010	-.1640	-.0700

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1938	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6760					
150.000			.1710	-.2050	.2480	.5910			.3340		-.5500	-.4700	-.3450	-.1820	-.0630
157.000								.5670							
162.000									.2220						
165.000											-.8340	-.4390	-.3120	-.1690	-.0670
169.000									.2020						
172.000							.9000								
180.000	1.3270	.7620	.0780	-.0990	.2720	.7970			.4950		-.7680	-.6490	-.2560	-.1970	-.0690

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2040							.0030		-.0640
40.000	.1690	.1920		-.1420	-.1330	-.2950	-.2150			-.1710
70.000		-.0190	-.1050	-.0140	.0290	-.1480	-.2430	-.2160		
90.000		.0190	.0160	.0510	-.0360	-.1580	-.2520	-.2130		
105.000				.0730	-.0670	-.1570	-.2470	-.2280		
110.000									-.3340	
120.000		.0420	.2000	.2400	-.1030	-.2680	-.1960	-.1910	-.2710	
135.000				.6100	.2170	-.2870	-.1590	-.1540		
150.000		.0550	.2600	.3730	.2220	-.1340	-.1390	-.1750		
165.000		.0310		.3880	.3510	-.0310	-.0920	-.3490		
180.000		.0520	.2240	.3380						

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1938	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2710	.8480	.0000	-.4450	-.2550	-.2090			.1600		.0570	-.0580	-.1610	-.2450	-.1550
20.000			.1360	-.4870	-.3190	-.1590			.1750		.0250				
40.000			.1390	-.4580	-.3220	-.1250			.1590		-.0410	-.1550	-.2400	-.3020	.0440
55.000			.1190	-.4750	-.3360	-.1260			.1030		-.0690				
70.000			.0880	-.4910	-.3810	-.0250			-.0400		-.1660	-.4980	-.4570	-.2580	-.0910
90.000		.6900	.0490	-.4670	-.3550	.0360			-.0770		-.2720	-.5580	-.5140	-.2020	-.0880
120.000			.0480	-.3820	-.0020	.1790			-.0590		-.5010	-.6370	-.4420	-.1850	-.0780
142.000										-.7490					
150.000			.0970	-.2430	.1180	.4960			.2380		-.6840	-.6000	-.3110	-.2240	-.0930
157.000								.4310							
162.000									.1190						
165.000											-.8660	-.5780	-.3130	-.2250	-.1200
169.000									.1820						
2.000							.8370								

ANES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2710	.7440	.0740	-.0600	.2150	.7620			.4710		-.7620	-.4960	-.3950	-.2300	-.1590

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2090							-.0050		-.0540
40.000	.1520	-.0150		-.1320	-.1830	-.2100	-.1890			-.2070
70.000		.0050	.0160	.0060	.0030	-.2020	-.2880	-.2640		
90.000		.0440	.0880	.0500	-.0580	-.2100	-.2960	-.2740		
105.000				.0620	-.1320	-.2090	-.2960	-.2920		
110.000									-.3790	
120.000		.0900	.2400	.1550	-.2460	-.3360	-.2550	-.2750	-.3300	
135.000				.6890	.1780	-.3850	-.3300	-.2660		
150.000		.0590	.2640	.4780	.3190	-.1600	-.2610	-.2810		
165.000		.0440		.4350	.4010	-.1190	-.1800	-.4150		
180.000		-.0010	.1870	.2980						

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2150	.8020	.0660	-.4370	-.2190	-.4170			.1090		.0120	-.1060	-.2270	-.3100	-.3690
20.000			.0760	-.5100	-.2310	-.3800			.1210		-.0310				
40.000			.0120	-.5350	-.4170	-.1970			.1030		-.1080	-.2470	-.3620	-.4250	-.0390
55.000			-.0480	-.5030	-.4800	-.1200			.0440		-.1320				
70.000			-.1070	-.6210	-.5210	-.0430			-.0970		-.2390	-.5720	-.5330	-.2730	-.0230
90.000		.5100	-.1260	-.6010	-.5010	-.0070			-.1410		-.3720	-.6290	-.5830	-.2370	-.0360
120.000			-.0860	-.4880	-.1980	.0770			-.1970		-.5880	-.7430	-.4260	-.2580	-.0920
142.000										-.8200					
150.000			.0000	-.2750	-.0260	.3680			.1040		-.7970	-.6500	-.4200	-.3060	-.1710
157.000								.0820							
162.000									.0260						
165.000											-.8810	-.6210	-.4580	-.4150	-.2710
169.000									.1480						
172.000							.7270								
180.000	1.2150	.7080	.0390	-.0510	.1340	.6920			.4280		-.7580	-.4880	-.4980	-.5690	-.4130

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							.0060		-.0840
40.000	.0970	.0540		-.2360	-.2440	-.2420	-.2260			-.2510

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0360	.0300	.0070	.0020	-.2230	-.3160	-.3120		
90.000		.0670	.1030	.0560	-.0730	-.2400	-.3270	-.3180		
105.000				.0350	-.1930	-.2480	-.3290	-.3330		
110.000									-.3910	
120.000		.0800	.2060	.0980	-.3120	-.4020	-.3080	-.3340	-.3660	
135.000				.6940	.2210	-.4180	-.4360	-.3700		
150.000		.0470	.1820	.2570	.0220	-.2270	-.3470	-.3880		
165.000		.0090		.3320	.3100	-.2310	-.2800	-.4490		
180.000		-.0410	.0970	.2160						

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2820	.9300	.0000	-.2180	-.0440	-.2550			-.2960		-.0550	.1100	-.0020	-.1590	-.3050
20.000			.4810	-.1020	-.0430	-.2490			-.2520		-.0660				
40.000			.6780	.1050	.1480	-.2220			-.2590		-.0370	-.0500	-.0640	-.0470	-.0430
55.000			.7510	.2340	.2770	.0400			.0720		.2250				
70.000			.7360	.2390	.2830	.1270			.1650		.1810	-.1860	-.1490	-.0420	-.0380
90.000		1.1670	.6460	.1690	.3170	.2480			.2620		.0250	-.2490	-.2120	-.0580	-.0670
120.000			.4980	.1100	.3400	.4590			.4380		-.0610	-.3030	-.2390	-.1280	-.1100
142.000										-.1700					
150.000			.3760	.0420	.3010	.7170			.5440		-.2920	-.2840	-.2360	-.1700	-.1230
157.000								.8050							
162.000									.4540						
165.000											-.4040	-.2350	-.2080	-.1600	-.1010
169.000									.2870						
172.000							.9550								
180.000	1.2820	.7510	.1590	.0090	.2030	.7550			.5360		-.6220	-.3790	-.3870	-.4040	-.3850

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0980							.0700		-.1110
40.000	-.0910	.4890		.1440	.1330	-.2090	-.5220			.0480
70.000		.0940	-.1220	-.2020	.0790	-.0150	-.0820	-.0910		
90.000		-.1000	-.0860	.0970	.0010	.0110	-.1150	-.1350		
105.000				.1960	.0890	-.0020	-.1430	-.1550		
110.000									-.1780	
120.000		-.1360	-.0880	.3890	.1310	-.1290	-.1160	-.0530	-.0680	
135.000				.3680	.2080	-.2460	.0230	.0870		
0.000		-.1190	.0810	.1650	.0820	-.0070	.1550	.1070		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

MACH (2) = .247 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0850		.2510	.3410	.1460	.2030	-.0960		
180.000		-.2080	.0110	.1760						

MACH (2) = 1.249 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2190	1.0180	.0000	-.2930	-.1500	-.1310			-.1630		-.1050	.1550	.0490	-.1230	-.2330
20.000			.4260	-.2000	-.1130	-.2000			-.1670		.0700				
40.000			.5510	-.0470	.0440	-.2090			-.2610		.0290	-.0520	.0400	-.0810	-.1100
55.000			.5860	.0230	.1330	-.0090			-.0130		-.0220				
70.000			.5610	.0190	.1280	.0950			.1030		-.0680	-.2240	-.1950	-.0930	-.0800
90.000		1.0490	.4880	-.0110	.1600	.2110			.1930		-.0890	-.3550	-.2640	-.0930	-.0910
120.000			.3920	-.0190	.2760	.4260			.3420		-.1550	-.3980	-.2980	-.1410	-.0960
142.000										-.3740					
150.000			.3320	-.0410	.3000	.7120			.5100		-.3130	-.3360	-.2910	-.1920	-.1110
157.000								.7660							
162.000									.4130						
165.000											-.5460	-.2750	-.2890	-.1770	-.1060
169.000									.3170						
172.000							.9860								
180.000	1.2190	.7830	.1810	-.0120	.2320	.8230			.5710		-.5560	-.4080	-.3440	-.2370	-.1410

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.0260							.0240		-.0900
40.000	-.0980	.3760		.0540	.0260	-.2490	-.2700			-.0060
70.000		-.1480	-.1290	-.1210	.0650	-.0490	-.1240	-.1380		
90.000		-.1160	-.0820	.0680	-.0240	-.0370	-.1520	-.1590		
105.000				.1390	.0190	-.0530	-.1730	-.1630		
110.000									-.2080	
120.000		-.0970	.0290	.4370	.0480	-.1800	-.1150	-.0830	-.1170	
135.000				.4950	.2530	-.1990	-.0190	.0180		
150.000		-.0710	.1180	.2520	.2020	-.0230	.0580	.0050		
165.000		-.0580		.3030	.3560	.1090	.0880	-.1840		
180.000		-.1290	.0120	.2580						

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3930	.9540	.0000	-.4140	-.2540	-.0280			-.1460		-.1920	.1510	.0470	-.0930	-.2050
20.000			.2340	-.3700	-.2650	-.0430			-.1440		-.1720				
40.000			.3600	-.2550	-.1770	-.0530			-.1370		-.1280	-.0250	-.0110	-.1370	-.1640
55.000			.3940	-.1970	-.1100	.0540			.0030		-.1030				
70.000			.3860	-.1950	-.1240	.1360			.0920		-.1240	-.3800	-.3080	-.1530	-.0800
90.000		.9500	.3310	-.1680	-.0860	.2130			.1550		-.1760	-.4190	-.3340	-.1410	-.0840
120.000			.2660	-.1430	.0340	.3780			.2310		-.2280	-.4660	-.3840	-.1690	-.0860
142.000										-.4670					
150.000			.2530	-.1200	.1610	.6620			.4390		-.3670	-.3770	-.3210	-.2200	-.0730
157.000								.6480							
162.000									.3290						
165.000											-.6060	-.3330	-.2960	-.2300	-.0700
169.000									.3100						
172.000							.9580								
180.000	1.3930	.7890	.1650	-.0220	.1810	.8520			.5710		-.5470	-.4590	-.2440	-.2390	-.0610

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1170							.0190		-.0660
40.000	.0240	.2370		-.0840	-.0690	-.3280	-.2420			-.0970
70.000		-.1390	-.1060	-.0680	.0300	-.0850	-.1580	-.1690		
90.000		-.1000	-.0300	.0450	-.0340	-.0870	-.1870	-.1710		
105.000				.0960	-.0350	-.0890	-.1920	-.1730		
110.000									-.2460	
120.000		-.0690	.1310	.2670	-.0360	-.2310	-.1360	-.1320	-.1920	
135.000				.5620	.2800	-.1930	-.1200	-.0890		
150.000		-.0490	.1730	.3130	.3230	-.0290	-.0610	-.1050		
165.000		-.0450		.3410	.3750	.0900	.0000	-.2610		
180.000		-.0450	.0770	.3160						

MACH (2) = 1.244 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3010	.9640	.0000	-.2810	-.0860	-.1600			-.1960		.0080	.1220	.0130	-.1330	-.2560
20.000			.2760	-.3140	-.1310	-.1000			-.1710		-.1080				
40.000			.2790	-.2860	-.1850	-.1000			-.1190		-.1540	-.0250	-.0890	-.1960	-.2340
55.000			.2570	-.2970	-.2160	-.0080			-.0130		-.1610				
70.000			.2180	-.3170	-.2560	.0960			.0360		-.2030	-.4450	-.3410	-.2130	-.0830
90.000		.7830	.1680	-.3090	-.2180	.1660			.0680		-.2460	-.4800	-.4450	-.1760	-.0820
.000			.1520	-.2350	-.0750	.2990			.0820		-.3180	-.5260	-.4380	-.2023	-.0720

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB16)

MACH (2) = 1.244 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5440					
150.000			.1910	-.1410	.0960	.5770			.3450		-.5000	-.4340	-.3020	-.2730	-.0710
157.000								.5300							
162.000									.2320						
165.000											-.6410	-.4350	-.2560	-.2660	-.1270
169.000									.2970						
172.000							.9030								
180.000	1.3010	.7930	.1710	-.0050	.2060	.8140			.5500		-.5520	-.4170	-.3430	-.2350	-.1470

X/LB	.5873	.6626	.7380	.7869	.8283	.6848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0930							.0120		-.0800
40.000	.0990	.0420		-.1500	-.1290	-.2560	-.1690			-.1840
70.000		-.0770	-.0780	-.0310	.0120	-.1310	-.1880	-.1430		
90.000		-.0620	-.0020	.0340	-.0480	-.1280	-.1930	-.1450		
105.000				.0310	-.0800	-.1430	-.1870	-.1700		
110.000									-.2610	
120.000		-.0710	.1150	.1740	-.1430	-.3250	-.1550	-.1670	-.2190	
135.000				.7380	.2540	-.2710	-.2590	-.1820		
150.000		-.0590	.0480	.3580	.3520	-.0520	-.1570	-.1950		
165.000		-.0880		.4380	.4570	.0030	-.0870	-.3220		
180.000		-.1390	.0160	.2540						

MACH (2) = 1.244 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2710	.8970	.0000	-.2560	-.0660	-.2760			-.3160		-.0570	.1180	-.0030	-.1540	-.3140
20.000			.2130	-.3240	-.0950	-.2950			-.2790		.0640				
40.000			.1430	-.3580	-.2790	-.1880			-.1630		-.0230	-.0720	-.1910	-.3050	-.2250
55.000			.0830	-.4160	-.3450	-.0530			-.0500		-.2070				
70.000			.0280	-.4440	-.3840	.0710			.0030		-.2580	-.4730	-.3920	-.2460	-.0760
90.000		.5900	-.0010	-.4340	-.3510	.1370			.0120		-.2980	-.5270	-.4710	-.2080	-.0740
120.000			.0230	-.3330	-.1290	.2100			-.0450		-.3860	-.5620	-.4550	-.2600	-.0880
142.000										-.6100					
150.000			.0980	-.1810	.0400	.4350			.2140		-.5840	-.4810	-.3250	-.2890	-.2090
157.000								.3870							
162.000									.1510						
165.000											-.6410	-.4940	-.3350	-.3660	-.2810
169.000									.2610						
172.000							.7810								

DATE 13 SEP 75 TABULATED PRESSURE DATA U TAPE

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB16)

MACH (2) = 1.244 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0198	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2710	.7530	.1360	.0020	.1760	.7230			.5020		-.5750	-.3700	-.3650	-.4200	-.4060
X/LB	.5873	.6626	.7380	.7969	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1230							.0240		-.1210					
40.000	.0490	-.0260		-.2060	-.2250	-.2220	-.2060			-.2520					
70.000		-.0160	-.0710	-.0080	.0390	-.1290	-.2180	-.2420							
90.000		-.0050	.0170	.0580	-.0310	-.1390	-.2330	-.2250							
105.000				.0510	-.1120	-.1620	-.2410	-.2430							
110.000									-.3130						
120.000		-.0140	.1010	.1390	-.2060	-.3800	-.2210	-.2440	-.2860						
135.000				.7460	.2770	-.3020	-.3260	-.3350							
150.000		-.1010	-.0120	.2160	.1210	-.1140	-.2400	-.2740							
165.000		-.1500		.3560	.3960	-.0560	-.1580	-.3670							
180.000		-.2070	-.0130	.1740											

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB17) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2250	.8520	.0000	-.4150	-.2320	-.4240			.0970		.0140	-.0820	-.1930	-.2760	-.3290
20.000			.3310	-.3160	-.2310	-.4230			-.0030		.0260				
40.000			.5310	-.1250	-.0300	-.2670			-.0760		-.0370	-.0790	-.0960	-.1260	-.1020
55.000			.6030	.0340	.1270	.1980			.2400		.1620				
70.000			.6000	.0460	.1430	.2400			.2730		.1290	-.3020	-.2180	-.1190	-.1040
90.000		1.0810	.5120	-.0270	.2000	.2960			.3010		.0890	-.3920	-.2720	-.1370	-.1550
120.000			.3550	-.0780	.2150	.4290			.3940		.0650	-.4650	-.3730	-.2220	-.2090
142.000										-.28					
150.000			.2280	-.1420	.1750	.6530			.4310		-.4010	-.3640	-.3700	-.2650	-.1870
157.000								.7110							
162.000									.3260						
165.000											-.4970	-.2980	-.3410	-.2350	-.1460
169.000									.1430						
172.000							.8700								
180.000	1.2250	.6790	.0120	-.1780	.0930	.6960			.4260		-.8400	-.4850	-.5580	-.6190	-.3550

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2070							.0670		-.0950
40.000	.3220	.4600		.2010	.0690	-.3560	-.2890			-.1130
70.000		-.0370	-.2350	-.1520	.1240	-.0600	-.1560	-.1620		
90.000		-.0130	-.1830	.0800	.0410	-.0660	-.1980	-.2070		
105.000				.1720	.0130	-.0760	-.2260	-.1980		
110.000									-.2750	
120.000		-.0540	-.0370	.5480	.0150	-.1750	-.1830	-.0970	-.1730	
135.000				.3950	.1410	-.3010	-.0120	-.0040		
150.000		.0050	.1620	.1970	.0260	-.0680	.0830	-.0100		
165.000		.0360		.2700	.2860	.0490	.1130	-.2220		
180.000		-.0380	.0780	.2060						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB17)

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3020	.8490	.0000	-.5220	-.3070	-.1640			.1780		.0630	-.0330	-.1280	-.2110	-.1280
20.000			.2350	-.4090	-.2950	-.2280			.1830		.0620				
40.000			.3990	-.2420	-.1260	-.3810			.1560		.0150	-.0560	-.1050	-.1360	-.1260
55.000			.4580	-.1600	-.0240	-.1260			.2550		.0990				
70.000			.4400	-.1660	-.0280	.0030			.2360		.0490	-.3560	-.2900	-.1770	-.1240
90.000		.9920	.3600	-.1930	.0330	.1170			.2220		-.0180	-.4360	-.3490	-.1820	-.1390
120.000			.2540	-.2070	.2370	.3300			.2460		-.1800	-.5080	-.4030	-.2250	-.1310
142.000										-.5500					
150.000			.1840	-.2350	.2200	.6230			.3820		-.4790	-.4020	-.3550	-.2230	-.1030
157.000								.6490							
162.000									.2750						
165.000											-.7690	-.3570	-.3450	-.1940	-.0930
169.000									.1650						
172.000							.9000								
180.000	1.3020	.7070	.0210	-.1920	.1870	.7590			.4510		-.8030	-.5400	-.4370	-.2360	-.1750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2120							.0160		-.0930
40.000	.2480	.3430		.1040	.0030	-.3940	-.2330			-.0950
70.000		-.0390	-.2250	-.1250	.0720	-.1220	-.2170	-.2290		
90.000		-.0070	-.1540	.0390	-.0280	-.1290	-.2590	-.2330		
105.000				.1230	-.0530	-.1310	-.2730	-.2340		
110.000									-.3200	
120.000		-.0100	.0880	.4170	-.0760	-.2300	-.2040	-.1600	-.2340	
135.000				.4910	.1680	-.2940	-.0910	-.0860		
150.000		.0210	.1890	.2570	.1320	-.1370	-.0300	-.1090		
165.000		.0350		.2860	.3070	-.0220	-.0180	-.2950		
180.000		.0020	.1700	.2700						

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3220	.8090	.0000	-.6050	-.2000	-.2010			.1680		.0740	-.0190	-.0860	-.1660	.0320
20.000			.0880	-.5570	-.3520	-.2180			.1690		.0610				
40.000			.2250	-.4220	-.2660	-.2190			.1770		.0090	-.0690	-.1300	-.1840	.0430
55.000			.2750	-.3520	-.2060	-.0810			.2180		.0260				
70.000			.2680	-.3500	-.2230	.0170			.1830		-.0480	-.4110	-.3620	-.2540	-.0920
90.000		.8600	.2090	-.3420	-.2090	.1020			.1420		-.1230	-.4770	-.4260	-.2250	-.1010
0.000			.1520	-.3070	-.0510	.2857			.1080		-.2850	-.5550	-.4400	-.1750	-.0740

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM317)

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6780					
150.000			.1330	-.2890	.0730	.5870			.3260		-.5550	-.4840	-.3650	-.1790	-.0630
157.000								.5650							
162.000									.2050						
165.000											-.8400	-.4490	-.3240	-.1860	-.0630
169.000									.1720						
172.000							.8960								
180.000	1.3220	.7290	.0280	-.1820	.1600	.7860			.4640		-.7820	-.6690	-.2650	-.2000	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							.0100		-.0560
40.000	.1700	.1850		-.0070	-.0950	-.2540	-.2180			-.1390
70.000		-.0370	-.2000	-.0900	.0060	-.1720	-.2540	-.2260		
90.000		.0070	-.0770	-.0070	-.0950	-.1780	-.2910	-.2320		
105.000				.0260	-.0940	-.1790	-.2790	-.2530		
110.000									-.3550	
120.000		.0280	.1490	.2350	-.1570	-.3010	-.2170	-.2200	-.2950	
35.000				.5220	.1950	-.3050	-.1860	-.1690		
150.000		.0400	.2060	.3490	.2380	-.1620	-.1640	-.1970		
165.000		.0460		.3530	.3090	-.0610	-.1210	-.3560		
180.000		.0460	.1710	.2940						

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	.8400	.0000	-.5210	-.3010	-.1820			.1820		.0610	-.0420	-.1280	-.2090	-.0670
20.000			.0750	-.55]	-.3310	-.1630			.1820		.0370				
40.000			.1120	-.5030	-.3630	-.1320			.1680		-.0260	-.1250	-.1990	-.2680	.0620
55.000			.1110	-.4970	-.3620	-.0830			.1290		-.0450				
70.000			.0900	-.5040	-.4010	-.0190			-.0420		-.1370	-.4820	-.4430	-.3060	-.0770
90.000		.7060	.0500	-.4820	-.3790	.0480			-.0360		-.2430	-.5430	-.5010	-.2230	-.0800
120.000			.0260	-.4070	-.1820	.1960			-.0220		-.4890	-.6270	-.4780	-.1810	-.0680
142.000										-.7540					
150.000			.0520	-.3260	.0630	.4940			.2280		-.6760	-.6210	-.3200	-.2140	-.0790
157.000								.4300							
162.000									.1820						
165.000											-.8770	-.5970	-.2980	-.2210	-.0990
169.000									.1490						
172.000							.8260								

DATE ..: SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB17)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2930	.7090	.0080	-.1830	.1640	.7450			.4340		-.7830	-.5220	-.4200	-.2310	-.1750
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2090							-.0090		-.0610					
40.000	.1380	-.0290		-.0880	-.1590	-.2070	-.1770			-.1930					
70.000		-.0490	-.0330	-.0180	-.0100	-.2150	-.3100	-.2990							
90.000		-.0030	.0590	.0300	-.0790	-.2160	-.3190	-.3010							
105.000				.0370	-.1220	-.2160	-.3200	-.3170							
110.000									-.3850						
120.000		.0300	.2100	.1570	-.2300	-.3430	-.2730	-.2930	-.3480						
135.000				.6370	.1750	-.3870	-.3140	-.2770							
150.000		.0340	.2420	.4500	.2930	-.1880	-.2880	-.3010							
165.000		.0170		.4100	.3580	-.1260	-.2090	-.4220							
180.000		-.0090	.1620	.2640											

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2170	.8350	.0000	-.4130	-.2430	-.4010			.0560		.0170	-.0900	-.2040	-.2760	-.3120
20.000			.0720	-.5290	-.2550	-.4060			.1220		-.0200				
40.000			.0150	-.5300	-.4490	-.2350			.1110		-.0950	-.2170	-.3280	-.3870	-.0030
55.000			-.0420	-.6050	-.5130	-.1300			.0730		-.1090				
70.000			-.0990	-.6090	-.5510	-.0410			-.0550		-.2160	-.5470	-.5190	-.3190	.0140
91.000		.5210	-.1280	-.6130	-.5230	.0090			-.1230		-.3500	-.6190	-.5650	-.2520	-.0100
120.000			-.1140	-.5110	-.2240	.0960			-.1720		-.5930	-.7190	-.4460	-.2420	-.0740
142.000										-.8250					
150.000			-.0500	-.3610	-.0790	.3650			.0970		-.8190	-.6800	-.4170	-.2860	-.1500
157.000								.2760							
162.000									.0070						
165.000											-.8960	-.6620	-.4740	-.3920	-.2260
169.000									.1210						
172.000							.7100								
180.000	1.2170	.8580	-.0230	-.1650	.0540	.6660			.3920		-.7970	-.5260	-.5370	-.6370	-.3930
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1940							.0050		-.0900					
1.000	.1150	.0630		-.2220	-.2200	-.2150	-.2100			-.2700					

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB17)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0140	-.0330	-.0180	-.0190	-.2360	-.3290	-.3020		
90.000		.0400	.0530	.0300	-.0910	-.2490	-.3360	-.3120		
105.000				.0360	-.1710	-.2460	-.3280	-.3350		
110.000									-.3940	
120.000		.0610	.1840	.1080	-.2940	-.4140	-.3020	-.3260	-.3850	
135.000				.6650	.2080	-.4030	-.4030	-.3450		
150.000		.0440	.1650	.2870	.0140	-.2500	-.3870	-.4000		
165.000		.0530		.3110	.2770	-.2120	-.3140	-.4520		
180.000		-.0520	.0800	.1940						

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2650	.9660	.0000	-.2230	-.0630	-.2630			-.2[illegible]		-.1620	-.0760	.0000	-.1300	-.2560
20.000			.5020	-.1090	-.0600	-.2610			-.2160		-.1160				
40.000			.7090	.1100	.1360	-.2310			-.1840		-.0670	-.0490	-.0730	.0160	-.0230
55.000			.7750	.2430	.2660	.0130			.0220		.1850				
70.000			.7540	.2420	.2540	.0750			.1410		.1580	-.1990	-.1740	-.0690	-.0480
90.000		1.1490	.6350	.1500	.2760	.1350			.2460		.0910	-.2700	-.2400	-.0970	-.0860
120.000			.4550	.0680	.2840	.4080			.4300		-.0210	-.3260	-.2770	-.1630	-.1450
142.000										-.1870					
150.000			.3230	-.0500	.2590	.6810			.5140		-.3260	-.3050	-.2680	-.2050	-.1480
157.000								.7820							
162.000									.4210						
165.000											-.4200	-.2240	-.2490	-.1910	-.1240
169.000									.2460						
172.000							.9330								
180.000	1.2650	.7140	.1060	-.0690	.1690	.7110			.4950		-.6430	-.4070	-.4020	-.4490	-.3840

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							.0860		-.1140
40.000	-.0180	.5110		.2210	.1790	-.1950	-.5110			.0520
70.000		-.0760	-.1660	-.2580	-.0060	-.0490	-.1100	-.1260		
90.000		-.0850	-.1340	.0590	-.0400	-.0180	-.1480	-.1660		
105.000				.1680	.0690	-.0720	-.1710	-.1840		
110.000									-.2030	
120.000		-.1600	-.1260	.6000	.1090	-.1490	-.1480	-.1200	-.0970	
135.000				.3260	.1740	-.2820	-.0850	.0500		
150.000		-.1180	.0750	.1250	.0570	-.0890	.0980	.0730		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB17)

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0770		.2010	.3160	.0730	.1460	-.1220		
180.000		-.1730	.0050	.1780						

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3940	.9980	.0000	-.2970	-.1840	-.0600			-.1820		-.1800	.1710	.0640	-.1020	-.1950
20.000			.4040	-.2360	-.1520	-.1990			-.1720		.0050				
40.000			.5660	-.0610	.0280	-.2130			-.2590		.0280	-.0370	.0730	-.0680	-.0630
55.000			.6110	.0200	.1100	-.0310			-.0390		.1520				
70.000			.5810	.0010	.0900	.0280			.0860		-.0660	-.2360	-.2060	-.1140	-.0940
90.000		1.0680	.4700	-.0330	.1130	.1490			.1860		-.1210	-.2980	-.2760	-.1300	-.1100
120.000			.3420	-.0590	.1590	.3880			.3340		-.1900	-.4260	-.2960	-.1700	-.1220
142.000										-.3760					
150.000			.2710	-.1130	.1940	.6810			.4810		-.3570	-.4020	-.3200	-.2060	-.1240
157.000								.7410							
162.000									.3860						
165.000											-.5780	-.3190	-.3220	-.1920	-.1100
169.000									.2780						
172.000							.9570								
180.000	1.3940	.7200	.1160	-.0740	.1220	.7900			.5300		-.5930	-.4510	-.3620	-.2470	-.1540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0690							.0360		-.0960
40.000	-.0750	.3990		.0420	.0800	-.2230	-.3190			.0090
70.000		-.1620	-.1620	-.1910	.0090	-.0710	-.1410	-.1750		
90.000		-.1340	-.1210	.0490	-.0610	-.0580	-.1790	-.1950		
105.000				.1320	.0000	-.0790	-.1990	-.2060		
110.000									-.2220	
120.000		-.1160	-.0180	.4510	.0400	-.2060	-.1560	-.1230	-.1460	
135.000				.4380	.2080	-.2300	-.0750	-.0190		
150.000		-.0730	.1180	.1950	.1480	-.0710	.0210	-.0350		
165.000		-.0620		.2290	.3200	.0620	.0520	-.2040		
180.000		-.1090	.0400	.2290						

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBNB17)

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4080	.9680	.0000	-.3650	-.2630	-.0280			-.1740		-.2580	.1880	.0660	-.0780	-.1550
20.000			.2620	-.3800	-.2870	-.0540			-.1760		-.1770				
40.000			.3830	-.2520	-.2010	-.0340			-.1680		-.0120	.0380	-.0150	-.1120	-.1160
55.000			.4240	-.1820	-.1230	.0120			-.0110		-.1040				
70.000			.4120	-.1800	-.1250	.0760			.0850		-.1290	-.3060	-.2880	-.1740	-.1030
90.000		.9680	.3420	-.1810	-.0990	.1910			.1620		-.1940	-.4470	-.3490	-.1680	-.1070
120.000			.2560	-.1610	-.0310	.3700			.2520		-.2580	-.4910	-.4140	-.1770	-.0910
142.000										-.4770					
150.000			.2190	-.1660	.0970	.6520			.4230		-.4060	-.4300	-.3520	-.2110	-.0780
157.000								.6500							
162.000									.3100						
165.000											-.5430	-.3720	-.3310	-.2300	-.0740
169.000									.2730						
172.000							.9570								
180.000	1.4080	.7680	.1140	-.0770	.1120	.8000			.5280		-.5900	-.5050	-.2730	-.2650	-.0620

X/LB	.5873	.6626	.7380	.7869	.8283	.8643	.9262	.9639	1.0015	1.0392
PHI										
.000	.1120							.0220		-.0670
40.000	.0340	.2410		-.0730	-.0440	-.0060	-.2170			-.0940
70.000		-.1380	-.1470	-.1280	-.0150	-.1080	-.1850	-.2180		
90.000		-.1060	-.0890	.0220	-.0860	-.1040	-.2100	-.2070		
105.000				.0650	-.0450	-.1440	-.2160	-.2160		
110.000									-.2570	
120.000		-.0730	.0900	.2850	-.0290	-.2630	-.1760	-.1590	-.2080	
135.000				.4960	.2490	-.2120	-.1370	-.1170		
150.000		-.0510	.1450	.2870	.2560	-.0650	-.0800	-.1290		
165.000		-.0480		.2920	.3480	.0450	-.0250	-.2790		
180.000		-.0440	.0940	.2810						

MACH (2) = 1.244 BETAT (4) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3860	.9950	.0000	-.2960	-.1550	-.1550			-.1860		-.0670	.1520	.0530	-.1080	-.2100
20.000			.2460	-.3570	-.2400	-.0670			-.1800		-.2220				
40.000			.2790	-.3220	-.2270	-.1120			-.1510		-.1700	.0420	-.0670	-.1640	-.1950
55.000			.2650	-.3070	-.2530	-.0470			-.0120		-.1720				
70.000			.2350	-.3210	-.2840	.0790			.0500		-.2070	-.4530	-.3290	-.2230	-.0980
90.000		.8090	.1830	-.3180	-.2450	.1750			.0910		-.2460	-.5120	-.4170	-.1890	-.0530
120.000			.1330	-.2590	-.1340	.3100			.1200		-.3310	-.5400	-.4650	-.1780	-.0710

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB17)

MACH (2) = 1.244 BETAT (4) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5460					
150.000			.1420	-.1970	.0340	.5690			.3350		-.5100	-.4710	-.3340	-.2820	-.3650
157.000								.5250							
162.000									.2150						
165.000											-.6690	-.4650	-.2860	-.2780	-.0930
169.000									.2630						
172.000							.8800								
180.000	1.3860	.7250	.1030	-.0760	.1200	.7840			.5100		-.5890	-.4730	-.3570	-.2490	-.1270

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1500							.0180		-.0820
40.000	.1420	.0600		-.0920	-.0950	-.2440	-.1550			-.1710
70.000		-.0800	-.1370	-.0970	-.0350	-.1400	-.2180	-.1800		
90.000		-.0520	-.0460	.0090	-.0950	-.1480	-.2370	-.1850		
105.000				.0280	-.0940	-.1630	-.2330	-.2040		
110.000									-.2760	
120.000		-.0530	.1100	.1580	-.1280	-.3270	-.2190	-.1840	-.2440	
135.000				.6070	.2490	-.2720	-.2470	-.1910		
150.000		-.0540	.1280	.3850	.3350	-.0760	-.1710	-.2130		
165.000		-.0730		.3840	.3880	-.0060	-.1020	-.3280		
180.000		-.1220	.0490	.2250						

MACH (2) = 1.245 BETAT (5) = 9.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2800	.9660	.0000	-.2440	-.0740	-.2770			-.2510		-.1850	-.0670	.0120	-.1210	-.2640
20.000			.2330	-.3360	-.1090	-.2790			-.2660		-.1930				
40.000			.1710	-.3510	-.2950	-.2130			-.1900		-.1440	-.0600	-.1680	-.2470	-.2630
55.000			.1110	-.4070	-.3590	-.0960			-.0610		-.2110				
70.000			.0490	-.4370	-.3950	.0360			.0040		-.2510	-.5000	-.4090	-.2530	-.0820
90.000		.5940	.0000	-.4340	-.3580	.1360			.0240		-.3040	-.5510	-.4820	-.2090	-.0820
120.000			-.0020	-.3490	-.2300	.2250			-.0240		-.4040	-.5890	-.4820	-.2310	-.0820
142.000										-.6120					
150.000			.0550	-.2310	.0090	.4290			.2130		-.6150	-.5190	-.3330	-.3140	-.1520
157.000								.3890							
162.000									.1340						
165.000											-.6760	-.5360	-.3350	-.3770	-.2390
169.000									.2320						
172.000							.7700								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB17)

MACH (2) = 1.245 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2500	.6990	.0830	-.0730	.1340	.6840			.4680		-.6180	-.4050	-.3980	-.4700	-.3990

X/LB	.5873	.6626	.7380	.7869	.8283	.9848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1920							.0320		-.1180
40.000	.1030	-.0670		-.1860	-.1990	-.1920	-.1760			-.2630
70.000		-.0530	-.1220	-.0640	-.0070	-.1510	-.2320	-.2580		
90.000		-.0170	-.0440	.0190	-.0830	-.1520	-.2550	-.2480		
105.000				.0340	-.1020	-.1590	-.2600	-.2620		
110.000									-.3100	
120.000		-.0090	.1110	.1380	-.1690	-.3920	-.2370	-.2510	-.3120	
135.000				.7310	.2780	-.2770	-.2950	-.3180		
150.000		-.0390	.0120	.2830	.0690	-.1850	-.2660	-.3050		
165.000		-.0580		.3580	.3350	-.0760	-.1940	-.3760		
180.000		-.1870	-.0170	.1780						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB19) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2560	.8380	.0930	-.4640	-.2700	-.3190			.0270		-.0020	-.0870	-.1860	-.2470	-.2530
20.000			.3280	-.3240	-.2570	-.2730			-.0540		.0150				
40.000			.5410	-.0950	-.0420	-.1630			-.0730		-.0320	-.0760	-.0900	-.3610	.0150
55.000			.6240	.0410	.1120	.1880			.2360		.1630				
70.000			.6110	.0510	.1110	.2570			.2690		.1290	-.3070	-.2280	-.1320	-.1000
90.000		1.0860	.5070	-.0300	.1650	.3110			.3070		.0770	-.4010	-.2740	-.1590	-.1640
120.000			.3310	-.1040	.1930	.4290			.4280		-.0880	-.4790	-.4090	-.2610	-.2470
142.000										-.2750					
150.000			.1890	-.2270	.1420	.6380			.4130		-.4360	-.4050	-.4000	-.2890	-.1940
157.000								.7040							
162.000									.3100						
165.000											-.4860	-.3210	-.3710	-.2540	-.1510
169.000									.1070						
172.000							.8510								
180.000	1.2560	.6180	-.0450	-.2410	.0450	.6690			.3920		-.8680	-.5250	-.6150	-.6540	-.3160

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0580		-.0710
40.000	.3120	.4540		.2340	.0700	-.3690	-.2920			-.0940
70.000		-.0430	-.2600	-.2610	.0840	-.0860	-.1690	.0460		
90.000		-.0150	-.2160	.0410	-.0600	-.0820	-.2250	-.0770		
105.000				.1060	-.0280	-.0910	-.2580	-.1010		
110.000									-.1030	
120.000		-.0740	-.1430	.5440	-.0090	-.1900	-.2350	-.0790	.0230	
135.000				.3390	.0920	-.3610	-.0850	-.0420		
150.000		-.0050	.1210	.1570	-.0200	-.1580	.0400	-.0410		
165.000		.0150		.2170	.2450	-.0200	.0570	-.2480		
180.000		-.0560	.0740	.1840						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB18)

MACH (1) = 1.099 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.8210	.0000	-.5450	-.3330	-.2340			.1320		.0390	-.0330	-.0930	-.1680	-.0170
20.000			.1970	-.4570	-.3400	-.2330			.1360		.0270				
40.000			.3980	-.2620	-.1480	-.2280			.1190		.0040	-.0530	-.0830	-.1020	-.0290
55.000			.4720	-.1520	-.0360	-.1070			.2500		.0990				
70.000			.4560	-.1520	-.0570	.0400			.2520		.0470	-.3550	-.2910	-.1820	-.1420
90.000		1.0010	.3710	-.1920	-.0120	.1670			.2540		-.0120	-.4400	-.3440	-.1950	-.1570
120.000			.2410	-.2220	.0400	.3550			.2960		-.1860	-.5100	-.4350	-.2490	-.1430
142.000										-.4980					
150.000			.1580	-.2850	.0810	.6260			.3790		-.4850	-.4440	-.3820	-.2320	-.1070
157.000								.6580							
162.000									.2650						
165.000											-.7430	-.3690	-.3670	-.1930	-.0950
169.000									.1390						
172.000							.9020								
180.000	1.2990	.6770	-.0140	-.2390	.0160	.7480			.4260		-.8150	-.5440	-.4000	-.2470	-.1670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2000							.0120		-.0940
40.000	.2420	.3510		.1420	.0120	-.4030	-.2470			-.0940
70.000		-.0430	-.2610	-.2210	.0340	-.1400	-.2390	-.2250		
90.000		-.0040	-.2130	.0080	-.1060	-.1430	-.2780	-.2680		
105.000				.0980	-.0980	-.1440	-.2990	-.2850		
110.000									-.3390	
120.000		-.0200	-.0040	.4310	-.0860	-.2540	-.2380	-.2060	-.2570	
135.000				.4340	.1320	-.3340	-.1320	-.1130		
150.000		.0150	.1490	.2110	.0910	-.1800	-.0750	-.1340		
165.000		.0200		.2440	.2760	-.0620	-.0590	-.3130		
180.000		.0020	.1350	.2340						

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.7910	.0000	-.4920	-.1560	-.1030			.1260		.0330	-.0170	-.0830	-.1340	-.0470
20.000			.0420	-.5500	-.1520	-.1130			.1290		.0370				
40.000			.2100	-.4420	-.2360	-.2250			.1440		.0010	-.0340	-.1200	-.1610	-.0360
55.000			.2740	-.3550	-.2100	-.1110			.2050		.0280				
70.000			.2660	-.3500	-.2440	-.0120			.1970		-.0420	-.4160	-.3760	-.2780	-.0930
90.000		.8560	.2020	-.3490	-.2210	.1340			.1850		-.1140	-.4920	-.4310	-.2630	-.1050
120.000			.1220	-.3270	-.1210	.2830			.1680		-.2890	-.5660	-.4820	-.2000	-.0800

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6810					
150.000			.0960	-.3250	-.0020	.5810			.3150		-.5670	-.5130	-.3920	-.1880	-.0670
157.000								.5610							
162.000									.1880						
165.000											-.3600	-.4620	-.3350	-.1930	-.0630
169.000									.1440						
172.000							.6850								
180.000	1.3100	.7250	-.0060	-.2250	.0080	.7710			.4340		-.8100	-.6690	-.2840	-.2140	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1750							-.0010		-.0350
40.000	.1560	.1800		.0260	-.0910	-.1950	-.1790			-.1260
70.000		-.0340	-.2600	-.2000	-.0280	-.1880	-.2650	-.2580		
90.000		.0120	-.1640	-.0520	-.1320	-.1830	-.2950	-.2740		
105.000				.0040	-.1290	-.1770	-.2960	-.2900		
110.000									-.3640	
120.000		.0060	.1190	.2310	-.1520	-.3140	-.2340	-.2400	-.2960	
135.000				.4570	.1830	-.3230	-.2110	-.1890		
150.000		.0180	.1690	.3050	.2080	-.1840	-.1960	-.2320		
165.000		.0250		.3050	.2590	-.0810	-.1510	-.3650		
180.000		.0290	.1360	.2520						

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.8120	.0000	-.5510	-.3210	-.1940			.1340		.0310	-.0520	-.1110	-.1730	.0390
20.000			.0250	-.6010	-.3140	-.2420			.1450		.0130				
40.000			.0770	-.5450	-.3730	-.2210			.1250		-.0270	-.1140	-.1840	-.2340	.0520
55.000			.0960	-.5140	-.3770	-.1220			.1430		-.0350				
70.000			.0770	-.5120	-.4180	-.0250			.1090		-.1190	-.4800	-.4500	-.3380	-.0590
90.000		.6950	.0370	-.4960	-.3930	.0560			.0010		-.2270	-.5530	-.5030	-.2510	-.0650
120.000			.0010	-.4300	-.2740	.2060			-.0100		-.4140	-.6370	-.5110	-.1931	-.0590
142.000										-.7680					
150.000			.0200	-.3660	-.0890	.4950			.2180		-.6980	-.6200	-.3250	-.2180	-.0750
157.000								.4300							
162.000									.0870						
165.000											-.9000	-.6280	-.2980	-.2280	-.0890
169.000									.1250						
172.000							.0240								

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB18)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.6860	-.0280	-.2330	.0260	.7380			.4100		-.8100	-.5540	-.4370	-.2410	-.1790

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2000							-.0220		-.0800
40.000	.1320	-.0270		-.0530	-.1370	-.2100	-.1780			-.1930
70.000		- 0750	-.1350	-.0510	-.0310	-.2300	-.3220	-.3260		
90.000		-.0320	-.0090	-.0060	-.1050	-.2310	-.3420	-.3260		
105.000				.0060	-.1400	-.2320	-.3400	-.3410		
110.000									-.4020	
120.000		.0010	.1610	.1380	-.2250	-.3710	-.2870	-.3100	-.3570	
135.000				.6200	.1650	-.3940	-.3250	-.2980		
150.000		.0340	.2130	.4160	.2610	-.2120	-.3050	-.3230		
165.000		.0190		.3880	.3350	-.1490	-.2330	-.4250		
180.000		-.0100	.1290	.2310						

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0183	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2390	.8350	.0000	-.4450	-.2640	-.2790			-.0690		.0330	-.0770	-.1840	-.2400	-.2120
20.000			.0470	-.5500	-.2850	-.2680			.0830		-.0130				
40.000			-.0080	-.5510	-.4690	-.2010			.1130		-.0830	-.1930	-.2990	-.3620	-.0020
55.000			-.0580	-.6210	-.5360	-.1230			.0890		-.0840				
70.000			-.1140	-.6430	-.5680	-.0440			.0120		-.1930	-.5250	-.5010	-.3620	-.0020
90.000		.5170	-.1420	-.6280	-.5450	.0170			-.0950		-.3230	-.5900	-.5520	-.2660	-.0220
120.000			-.1400	-.5310	-.3590	.1100			-.1580		-.5920	-.7040	-.4570	-.2420	-.0450
142.000										-.8360					
150.000			-.0860	-.4090	-.0980	.3550			.0780		-.8220	-.6850	-.4080	-.2610	-.1370
157.000								.2660							
162.000									-.0140						
165.000											-.8920	-.6740	-.4820	-.3570	-.2080
169.000									.0920						
172.000							.6880								
180.000	1.2390	.6240	-.0670	-.2350	.0130	.6360			.3590		-.8190	-.5470	-.6500	-.6700	-.3460

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1630							-.0020		-.0770
40.000	.1070	.0780		-.2080	-.2170	-.2180	-.2070			-.2600

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB18)

MACH (1) = 1.099 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0480	-.1210	-.0520	-.0360	-.2250	-.3280	-.3230		
90.000		.0080	-.0160	-.0130	-.1050	-.2410	-.3310	-.3280		
105.000				.0060	-.1670	-.2400	-.3320	-.3440		
110.000									-.4130	
120.000		.0460	.1480	.1280	-.2830	-.4220	-.2990	-.3310	-.3930	
135.000				.6450	.2040	-.3940	-.3740	-.3360		
150.000		.0650	.1260	.2750	-.0020	-.2950	-.4210	-.4470		
165.000		.0620		.2900	.2460	-.2680	-.3400	-.4420		
180.000		-.0680	.0460	.1740						

MACH (2) = 1.244 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.9630	.0000	-.2820	-.1100	-.2250			-.1690		-.1520	-.1320	-.0050	-.1010	-.2130
20.000			.4780	-.1480	-.1040	-.1810			-.1600		-.0950				
40.000			.7030	.0890	.1120	-.1200			-.1460		-.0650	-.0070	-.0850	-.0610	.0060
55.000			.7850	.2350	.2470	.0580			.2006		.1550				
70.000			.7680	.2360	.2290	.0640			.3060		.1330	-.2040	-.1760	-.0770	-.0490
90.000		1.1910	.6470	.1380	.2460	.1020			.3590		.0640	-.2680	-.2270	-.1240	-.1030
120.000			.4200	.0250	.2190	.3500			.4990		-.0600	-.3350	-.3300	-.2000	-.1740
142.000										-.1640					
150.000			.2660	-.1160	.1910	.6570			.4930		-.3280	-.3290	-.2990	-.2270	-.1810
157.000								.7650							
162.000									.4000						
165.000											-.3880	-.2410	-.2750	-.2040	-.1440
169.000									.2070						
172.000							.9160								
180.000	1.3210	.8550	.0470	-.1330	.1210	.6670			.4560		-.6560	-.4270	-.4370	-.5120	-.3750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2330							.0840		-.0790
40.000	.1130	.4900		.3000	.1700	-.2050	-.4880			.0480
70.000		-.0830	-.2080	-.2930	-.0630	-.0700	-.1330	-.1580		
90.000		-.0740	-.1700	.0200	-.0860	-.0480	-.1640	-.1880		
105.000				.1320	.0540	-.1090	-.1830	-.2130		
110.000									-.2420	
120.000		-.1460	-.1670	.5970	.1090	-.1670	-.2040	-.1760	-.1260	
135.000				.2830	.1320	-.3160	-.1600	-.0030		
150.000		-.0950	.0600	.1150	.0210	-.1370	.0460	.0200		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB18)

MACH (2) = 1.244 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0780		.1690	.2690	.0220	.0870	-.1630		
180.000		-.1660	.0140	.1660						

MACH (2) = 1.244 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.0855	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3800	.9760	.0000	-.3180	-.2270	-.0500			-.2000		-.2320	.1790	.0560	-.0890	-.1640
20.000			.3830	-.2660	-.1980	-.1120			-.1090		-.1140				
40.000			.5680	-.0690	.0010	-.2200			-.0380		.0470	-.0250	.0260	-.0370	-.0460
55.000			.6240	.0250	.0890	-.0540			-.0790		.0810				
70.000			.5940	.0090	.0570	.0000			.0650		.0420	-.2300	-.2290	-.1340	-.1070
90.000		1.0910	.4870	-.0460	.0700	.0550			.1800		-.0310	-.3030	-.2770	-.1680	-.1370
120.000			.3150	-.0970	.0910	.3560			.3430		-.2040	-.3890	-.3260	-.2030	-.1480
142.000										-.3820					
150.000			.2220	-.1720	.1200	.6650			.4620		-.3300	-.4280	-.3210	-.2290	-.1300
157.000								.7350							
162.000									.3630						
165.000											-.3890	-.3380	-.3060	-.2100	-.1070
169.000									.2370						
172.000							.9610								
180.000	1.3800	.7220	.0600	-.1340	.0470	.7600			.4930		-.6110	-.4500	-.3770	-.27[illegible]	-.2080

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1890							.0300		-.0830
40.000	-.0115	.3980		.0690	.1490	-.2320	-.2660			.0100
70.000		-.1440	-.0940	-.2570	-.0700	-.0940	-.1620	-.2070		
90.000		-.1270	-.1470	.0250	-.0950	-.0910	-.2010	-.2230		
105.000				.1210	-.0060	-.1490	-.2170	-.2400		
110.000									-.2520	
120.000		-.1210	-.0770	.4810	.0420	-.2240	-.2270	-.1550	-.1730	
135.000				.3950	.1730	-.2720	-.1190	-.0570		
150.000		-.0720	.1050	.1620	.1080	-.1130	-.0140	-.0600		
165.000		-.0650		.1900	.2850	.0170	.0160	-.2250		
180.000		-.0920	.0550	.2100						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB18)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3900	.9580	.0000	-.3340	-.2340	-.0580			-.2010		-.2270	.1950	.0790	-.0560	-.1140
20.000			.2320	-.3940	-.2800	-.0850			-.1990		-.1560				
40.000			.3730	-.2770	-.2200	-.1040			-.1970		-.0620	.0610	.0060	-.0840	-.0980
55.000			.4190	-.1880	-.1380	-.0280			-.0460		-.0250				
70.000			.4080	-.1850	-.1390	.0260			.0620		-.1040	-.2970	-.2620	-.1900	-.1240
90.000		.9550	.3340	-.1930	-.1170	.1440			.1510		-.1810	-.4070	-.3310	-.2000	-.1290
120.000			.2340	-.1910	-.0540	.3640			.2490		-.2670	-.4860	-.3850	-.1970	-.1060
142.000										-.4890					
150.000			.1880	-.2020	.0290	.6440			.4120		-.4180	-.4550	-.3790	-.2120	-.0660
157.000								.6620							
162.000									.2950						
165.000											-.6430	-.3840	-.3610	-.2210	-.0590
169.000									.2450						
172.000							.9610								
180.000	1.3900	.7700	.0820	-.1240	.0490	.8100			.5000		-.5930	-.5130	-.2960	-.2610	-.0550

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1700							.0110		-.0620
40.000	.1320	.2240		-.0220	-.0200	-.3090	-.1990			-.1230
70.000		-.1150	-.1830	-.1800	-.0800	-.1260	-.2040	-.2440		
90.000		-.0800	-.1240	-.0050	-.1240	-.1380	-.2300	-.2370		
105.000				.0480	-.0570	-.1800	-.2380	-.2450		
110.000									-.2820	
120.000		-.0700	.0760	.2570	-.0270	-.2810	-.2250	-.1760	-.2310	
135.000				.4460	.2300	-.2340	-.1600	-.1460		
150.000		-.0520	.1390	.2710	.2310	-.0910	-.1090	-.1580		
165.000		-.0490		.2760	.2970	.0190	-.0600	-.2940		
180.000		-.0470	.0870	.2530						

MACH (2) = 1.249 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3770	.9730	.0000	-.3550	-.2560	-.0160			-.1860		-.1640	.1850	.0580	-.0780	-.1720
20.000			.2010	-.4180	-.3210	-.0560			-.2170		-.2140				
40.000			.2460	-.3620	-.2880	-.0870			-.2000		-.0860	.0360	-.0270	-.1390	-.1580
55.000			.2410	-.3280	-.2860	-.0460			-.0580		-.1450				
70.000			.2170	-.3350	-.3010	.0350			.0380		-.2060	-.3770	-.3100	-.2360	-.1070
90.000		.7910	.1630	-.3340	-.2710	.1760			.1050		-.2340	-.5010	-.3680	-.2090	-.1010
3.000			.1110	-.2810	-.1780	.3250			.1420		-.3210	-.5250	-.4930	-.1640	-.0740

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (R8MB18)

MACH (2) = 1.249 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5550					
150.000			.1100	-.2410	-.0410	.5690			.3280		-.4920	-.4680	-.3550	-.2430	-.0670
157.000								.5380							
162.000									.2020						
165.000											-.6540	-.4590	-.3060	-.2840	-.0820
169.000									.2340						
172.000							.8930								
180.000	1.3770	.7250	.0560	-.1500	.0530	.7690			.4760		-.5800	-.4580	-.3620	-.2720	-.1910

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0090		-.0860
40.000	.1610	.0420		-.0560	-.0660	-.2320	-.1780			-.1630
70.000		-.0870	-.1700	-.1420	-.0680	-.1590	-.2330	-.2020		
90.000		-.0490	-.0840	-.0310	-.1380	-.1620	-.2490	-.2040		
105.000				.0160	-.1160	-.1950	-.2500	-.2280		
110.000									-.2900	
120.000		-.0360	.0960	.2020	-.1110	-.3470	-.2380	-.1890	-.2530	
135.000				.5590	.2360	-.2810	-.2440	-.2100		
150.000		-.0470	.1200	.3500	.3140	-.1000	-.1870	-.2150		
165.000		-.0620		.3500	.3580	-.0130	-.1160	-.3320		
180.000		-.0990	.0490	.2040						

MACH (2) = 1.245 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2910	.9680	.0000	-.2540	-.0890	-.2560			-.2610		-.1900	-.0930	.0600	-.0960	-.2110
20.000			.2150	-.3530	-.1270	-.2880			-.2520		-.2220				
40.000			.1600	-.3810	-.3290	-.2700			-.1980		-.1800	-.0440	-.1100	-.2210	-.2320
55.000			.1100	-.4240	-.3860	-.1260			-.0670		-.1780				
70.000			.0460	-.4510	-.4280	-.0230			-.0020		-.2280	-.4650	-.3900	-.2690	-.0150
90.000		.6310	-.0050	-.4530	-.4010	.1220			.0300		-.2820	-.5290	-.4670	-.1980	-.0160
120.000			-.0410	-.3700	-.2780	.2150			-.0290		-.3940	-.5790	-.4910	-.2060	-.0430
142.000										-.6200					
150.000			.0030	-.2730	-.0490	.3980			.1890		-.6130	-.5150	-.3490	-.3240	-.1230
157.000								.3780							
162.000									.1100						
165.000											-.6690	-.5340	-.3580	-.3850	-.2110
169.000									.2030						
172.000							.7450								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB18)

MACH (2) = 1.245 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2910	.6440	.0330	-.1280	.0910	.6350			.4320		-.6220	-.4160	-.4470	-.5220	-.3880

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2200							.0150		-.0970
40.000	.1220	-.0800		-.1670	-.1860	-.1830	-.1680			-.2670
70.000		-.0660	-.1680	-.1150	-.0240	-.1620	-.2430	-.2880		
90.000		-.0280	-.0770	-.0100	-.1180	-.1650	-.2670	-.2760		
105.000				.0490	-.1400	-.2000	-.2680	-.2840		
110.000									-.3340	
120.000		-.0110	.1000	.2090	-.1630	-.3950	-.2660	-.2580	-.3130	
135.000				.6300	.2860	-.2830	-.2750	-.3160		
150.000		-.0430	.0700	.2460	.0590	-.2370	-.3070	-.3540		
165.000		-.0330		.3020	.2870	-.1060	-.2080	-.3870		
180.000		-.1650	.0050	.1700						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB19) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2460	.7960	.0000	-.4730	-.3260	-.0620			-.0820		-.0420	-.0240	-.1280	-.2020	-.1240
20.000			.2720	-.4190	-.3180	-.1030			.0360		-.0800				
40.000			.5350	-.1790	-.0680	-.2060			.0500		-.0650	-.0240	-.0410	-.0520	.1030
55.000			.6310	.0240	.0930	.1420			.2700		.1490				
70.000			.6210	.0320	.0800	.2270			.2870		.1210	-.3130	-.2260	-.1360	-.1000
90.000		1.1040	.5020	-.0520	.1130	.2820			.3200		.0710	-.4060	-.2660	-.1650	-.1850
120.000			.3000	-.1470	.0910	.4100			.4460		-.1050	-.4830	-.4630	-.2910	-.2820
142.000										-.2750					
150.000			.1490	-.2900	.0990	.6280			.3990		-.4620	-.4340	-.4260	-.3050	-.1820
157.000								.6960							
162.000									.2940						
165.000											-.4910	-.3320	-.3960	-.2640	-.1440
169.000									.0800						
172.000							.8490								
180.000	1.2460	.5900	-.0790	-.3070	.0020	.6580			.3640		-.8790	-.5490	-.6830	-.6440	-.2640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							.0560		-.0750
40.000	.3130	.4290		.2260	.0570	-.3670	-.2870			-.1020
70.000		-.0580	-.3060	-.3380	.0050	-.0760	-.0790	.0880		
90.000		-.0330	-.2640	.0040	-.1590	-.0970	-.1670	.1200		
105.000				.0520	-.0510	-.1060	-.2010	.0920		
110.000									-.1520	
120.000		-.1120	-.1990	.5290	-.0040	-.2440	-.2350	.1320	-.0210	
135.000				.2920	.0660	-.4060	-.1680	.0610		
150.000		-.0110	.0820	.1350	-.0410	-.2110	-.0310	-.0520		
165.000		.0030		.1920	.1990	-.0830	-.0160	-.2810		
180.000		-.0280	.0590	.1740						

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB19)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2970	.7880	.0000	-.5300	-.1960	-.1650			.0950		.0330	-.0140	-.0670	-.1130	.0690
20.000			.1530	-.5040	-.3680	-.1500			.1040		.0200				
40.000			.3920	-.3020	-.1730	-.0950			.1030		.0090	-.0260	-.0530	-.0680	.0960
55.000			.4790	-.1520	-.0550	.1290			.2240		.0910				
70.000			.4640	-.1490	-.0730	.2010			.2410		.0420	-.3490	-.2900	-.1870	-.1500
90.000		1.0020	.3690	-.1950	-.0500	.2560			.2620		-.0190	-.4390	-.3330	-.2250	-.1730
120.000			.2170	-.2390	-.0250	.3780			.3280		-.2010	-.5120	-.4580	-.2760	-.1560
142.000										-.4520					
150.000			.1200	-.3220	.0070	.6250			.3720		-.5020	-.4960	-.4110	-.2280	-.1000
157.000								.6610							
162.000									.2560						
165.000											-.7310	-.3890	-.3890	-.1880	-.0920
169.000									.1210						
172.000							.8940								
180.000	1.2970	.6780	-.0530	-.2730	-.0710	.7300			.4040		-.8260	-.5610	-.4230	-.2490	-.1420

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1920							.0180		-.0970
40.000	.2440	.3430		.1440	.0040	-.3970	-.2150			-.1020
70.000		-.0430	-.2950	-.2940	-.0400	-.1690	-.2540	.0060		
90.000		-.0090	-.2410	-.0180	-.1750	-.1540	-.3030	-.0850		
105.000				.0630	-.1090	-.1670	-.3190	-.1840		
110.000									-.1260	
120.000		-.0430	-.0880	.4360	-.0800	-.3250	-.2640	-.2440	-.0070	
135.000				.3920	.0980	-.3620	-.1910	-.1470		
150.000		.0060	.1280	.1810	.0540	-.2150	-.1160	-.1680		
165.000		.0070		.2120	.2350	-.1030	-.0960	-.3330		
180.000		.0050	.1050	.2120						

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.7730	.0000	-.3960	-.1720	.0100			.1010		.0540	-.0020	-.0540	-.0900	.0520
20.000			.0170	-.4860	-.1240	-.0020			.1050		.0430				
40.000			.2150	-.4430	-.1950	-.0920			.1300		.0090	-.0440	-.0890	-.1210	.0540
55.000			.2850	-.3400	-.1940	-.0310			.1940		.0420				
70.000			.2820	-.3370	-.2380	.0300			.2030		-.0210	-.4100	-.3720	-.2800	-.0760
90.000		.8610	.2040	-.3480	-.2270	.1490			.2050		-.0980	-.4970	-.4200	-.2950	-.0990
7.000			.1050	-.3390	-.1630	.3040			.2070		-.2860	-.5710	-.4980	-.2190	-.0760

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB19)

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6720					
150.000			.0640	-.3580	-.0650	.5790			.3140		-.5710	-.5390	-.4150	-.1860	-.0570
157.000								.5670							
162.000									.1800						
165.000											-.8700	-.4730	-.3430	-.1860	-.0540
169.000									.1260						
172.000							.8780								
180.000	1.3210	.7020	-.0520	-.2690	-.0630	.7550			.4120		-.8290	-.6600	-.2960	-.2100	-.0540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1620							.0020		-.0350
40.000	.1650	.1980		.0410	-.0780	-.1680	-.1650			-.1300
70.000		-.0870	-.3000	-.2630	-.0820	-.2110	-.2840	-.2480		
90.000		-.0520	-.2240	-.0740	-.1830	-.1890	-.3130	-.3170		
105.000				.0000	-.1580	-.1970	-.3200	-.3140		
110.000									-.3510	
120.000		-.0210	.0630	.2470	-.1560	-.3730	-.2490	-.2650	-.3140	
135.000				.4030	.1300	-.3350	-.2470	-.2110		
150.000		.0110	.1340	.2540	.1660	-.2030	-.2150	-.2590		
165.000		.0210		.2680	.2290	-.0970	-.1660	-.3650		
180.000		.0310	.0890	.2240						

MACH (1) = 1.109 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.7780	.0000	-.5700	-.2140	-.1830			.1150		.0340	-.0230	-.0710	-.1160	.0560
20.000			-.0520	-.5960	-.1700	-.2070			.1130		.0270				
40.000			.0530	-.5620	-.2420	-.2130			.1170		-.0060	-.0790	-.1460	-.1810	.0270
55.000			.0910	-.5060	-.3550	-.1480			.1550		-.0100				
70.000			.0840	-.5030	-.4060	-.0540			.1470		-.0880	-.4540	-.4290	-.3510	-.0530
90.000		.6970	.0410	-.4940	-.3970	.0400			.0810		-.1860	-.5370	-.4770	-.2850	-.0560
120.000			-.0160	-.4420	-.3070	.2100			.0120		-.3870	-.6180	-.5330	-.1970	-.0400
142.000										-.7640					
150.000			-.0140	-.3967	-.1490	.4960			.2170		-.6900	-.6030	-.3330	-.2010	-.0480
157.000								.4410							
162.000									.0820						
165.000											-.8970	-.6140	-.3070	-.2110	-.0600
169.000									.1110						
172.000							.8210								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB19)

MACH (1) = 1.103 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2950	.6740	-.0660	-.2770	-.0620	.7220			.3900		-.8160	-.5710	-.4220	-.2510	-.1400

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							-.0170		-.0700
40.000	.1280	-.0050		-.0320	-.1260	-.2000	-.1670			-.1820
70.000		-.0990	-.1930	-.0900	-.0520	-.2450	-.3240	-.3400		
90.000		-.0420	-.0670	-.0500	-.1330	-.2400	-.3450	-.3410		
105.000				-.0180	-.1410	-.2400	-.3490	-.3570		
110.000									-.4000	
120.000		-.0030	.1000	.1010	-.2210	-.3800	-.2940	-.3230	-.3790	
135.000				.6140	.1610	-.3950	-.3280	-.3030		
150.000		.0330	.1690	.3980	.2380	-.2260	-.3140	-.3280		
165.000		.0240		.3770	.3180	-.1520	-.2450	-.4150		
180.000		.0010	.0960	.2050						

MACH (1) = 1.100 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2430	.8200	.0000	-.4680	-.2760	-.2630			-.1260		.0220	-.0590	-.1470	-.1980	-.1970
20.000			.0080	-.5870	-.2750	-.2090			-.0850		-.0050				
40.000			-.0390	-.5890	-.4880	-.1680			.1240		-.0800	-.1730	-.2700	-.3230	.0230
55.000			-.0440	-.6390	-.5490	-.0740			.0860		-.0710				
70.000			-.1260	-.6520	-.5880	-.0050			.0140		-.1620	-.5100	-.4960	-.4140	.0270
90.000		.5060	-.1550	-.6400	-.5620	.0450			-.0550		-.2800	-.5860	-.5450	-.2870	.0330
120.000			-.1670	-.5540	-.4380	.1340			-.1280		-.5550	-.6870	-.5080	-.2400	-.0030
142.030										-.8410					
150.000			-.1210	-.4520	-.1580	.3540			.0750		-.8290	-.6930	-.3970	-.2760	-.1200
157.000								.2720							
162.000									-.0280						
165.000											-.8980	-.6900	-.4610	-.3330	-.1910
169.000									.0690						
172.000							.6740								
180.000	1.2430	.5670	-.1060	-.2990	-.0200	.6100			.3290		-.8390	-.5720	-.7420	-.6900	-.2870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							-.0090		-.0660
20.000	.1150	.0680		-.2070	-.2110	-.2110	-.1950			-.2450

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB19)

MACH (1) = 1.100 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0690	-.2070	-.1240	-.0690	-.2540	-.3340	-.3450		
90.000		-.0160	-.0970	-.0580	-.1300	-.2430	-.3460	-.3530		
105.000				-.0220	-.2070	-.2420	-.3500	-.3680		
110.000									-.4110	
120.000		.0330	.0880	.1580	-.2670	-.3990	-.3110	-.3450	-.4110	
135.000				.6040	.1890	-.3950	-.3540	-.3340		
150.000		.0370	.1100	.2490	.0040	-.3130	-.4350	-.4560		
165.000		.0660		.2810	.2280	-.2740	-.3450	-.4360		
180.000		-.0480	.0380	.1590						

MACH (2) = 1.246 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3300	.9760	.0000	-.3050	-.1790	-.1590			-.1340		-.1900	-.1370	-.1180	-.0330	-.1680
20.000			.4640	-.1770	-.1500	-.1550			-.1740		-.0970				
40.000			.7070	.0760	.0930	-.1000			-.1780		-.0320	-.0050	-.0750	-.0290	.0420
55.000			.7830	.2250	.2280	.1140			.1120		.1330				
70.000			.7610	.2210	.2000	.1280			.2670		.1220	-.2120	-.1790	-.0790	-.0530
90.000		1.1890	.6310	.1200	.2120	.1400			.3410		.0590	-.2800	-.2490	-.1450	-.1170
120.000			.4030	-.0070	.1570	.2860			.5000		-.0920	-.3520	-.3620	-.2260	-.2030
142.000										-.1700					
150.000			.2340	-.1670	.0970	.6430			.4870		-.3720	-.3690	-.31..	-.2530	-.1890
157.000								.7920							
162.000									.3910						
165.000											-.3980	-.2640	-.2970	-.2180	-.1470
169.000									.1850						
172.000							.9350								
180.000	1.3300	.6410	.0070	-.1950	.0270	.6090			.4290		-.6760	-.4700	-.4830	-.3290	-.3050

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2280							.0810		-.0720
40.000	.2970	.4500		.2920	.1680	-.2100	-.4220			.0280
70.000		-.0720	-.2360	-.3220	-.0990	-.0960	-.1620	-.1670		
90.000		-.0860	-.2070	-.0120	-.1330	-.1080	-.1830	-.2120		
105.000				.0930	.0450	-.1100	-.2010	-.2440		
110.000									-.2480	
120.000		-.1600	-.2060	.5880	.1020	-.1840	-.2370	-.2020	-.1630	
135.000				.2520	.1110	-.3380	-.2030	-.0580		
150.000		-.0800	.0530	.1290	.0080	-.1590	-.0080	-.0210		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB19)

MACH (2) = 1.246 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0710		.1700	.2110	-.0160	.0270	-.2040		
180.000		-.1220	.0290	.1710						

MACH (2) = 1.250 BETAT (2) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	..3710	.9830	.0000	-.3760	-.2790	-.0560			-.1500		-.2470	.1820	.0850	-.0470	-.1270
20.000			.3620	-.2940	-.2470	-.0110			-.1190		-.1860				
40.000			.5610	-.0820	-.0200	-.1170			-.0790		-.0560	-.0410	.0580	.0040	-.0200
55.000			.6280	.0320	.0840	-.0680			.0410		.0210				
70.000			.6020	.0190	.0480	-.0180			.1620		.0140	-.2250	-.2410	-.1230	-.1170
90.000		1.0690	.4900	-.0410	.0540	.0270			.2280		-.0280	-.3460	-.2920	-.1720	-.1610
120.000			.3120	-.1090	.0450	.3010			.3460		-.1650	-.4100	-.3460	-.2270	-.1810
142.000										-.3810					
150.000			.2040	-.2000	.0320	.6480			.4570		-.3940	-.4500	-.3480	-.2530	-.1250
157.000								.7620							
162.000									.3530						
165.000											-.6090	-.3360	-.3320	-.2280	-.1030
169.000									.2210						
172.000							.9680								
180.000	1.3710	.6850	.0370	-.1680	-.0150	.7020			.4710		-.6320	-.4650	-.3850	-.2980	-.2080

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2270							.0540		-.0830
40.000	.0940	.3690		.2010	.1250	-.2320	-.2180			-.0190
70.000		-.1340	-.2200	-.2970	-.1060	-.1080	-.1810	-.2310		
90.000		-.1150	-.1800	-.0030	-.1260	-.1400	-.2110	-.2340		
105.000				.1000	-.0110	-.1410	-.2300	-.2580		
110.000									-.2580	
120.000		-.1220	-.1000	.4800	.0270	-.2320	-.2480	-.1850	-.1980	
135.000				.3560	.1510	-.2960	-.1530	-.0930		
150.000		-.0680	.0950	.1550	.0810	-.1420	-.0470	-.0850		
165.000		-.0830		.1800	.2430	-.0130	-.0200	-.2420		
180.000		-.0770	.0540	.1940						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB19)

MACH (2) = 1.247 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3900	.9510	.0000	-.2190	-.2370	-.0500			-.1780		-.2180	.1690	.0760	-.0220	-.0760
20.000			.1910	-.3040	-.2130	-.0780			-.1710		-.1930				
40.000			.3580	-.2900	-.1540	-.1050			-.1430		-.1750	.0720	.0140	-.0480	-.0580
55.000			.4200	-.1860	-.1140	-.0540			-.0490		-.0550				
70.000			.4140	-.1770	-.1340	-.0180			.0530		-.0620	-.3430	-.2520	-.1930	-.1510
90.000		.9530	.3310	-.1950	-.1150	.0340			.1480		-.1270	-.4340	-.3030	-.2130	-.1520
120.000			.2130	-.1950	-.0720	.3390			.2350		-.2830	-.4730	-.4270	-.2160	-.1160
142.000										-.4850					
150.000			.1610	-.2240	-.0190	.6320			.4140		-.4470	-.5010	-.3780	-.2070	-.0630
157.000								.6810							
162.000									.2940						
165.000											-.6720	-.4220	-.3740	-.2220	-.0530
169.000									.2370						
172.000							.9670								
180.000	1.3900	.7140	.0510	-.1520	-.0020	.7600			.4880		-.6250	-.5490	-.3200	-.2590	-.0460

X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							.0180		-.0450
40.000	.1280	.2280		.0640	.0250	-.2980	-.1770			-.1210
70.000		-.1210	-.2100	-.2310	-.1220	-.1370	-.2140	-.2630		
90.000		-.0730	-.1490	-.0300	-.1340	-.1730	-.2430	-.2550		
105.000				.0400	-.0650	-.1860	-.2530	-.2630		
110.000									-.2860	
120.000		-.0600	.0700	.2710	-.0250	-.2910	-.2500	-.1950	-.2430	
135.000				.3830	.2080	-.2480	-.1700	-.1610		
150.000		-.0490	.1310	.2560	.2070	-.1060	-.1230	-.1780		
165.000		-.0420		.2630	.2520	.0020	-.0820	-.2970		
190.000		-.0390	.0910	.2290						

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3710	.9650	.0000	-.3740	-.2890	-.0740			-.1630		-.2040	.1730	.0690	-.0320	-.1290
20.000			.1490	-.4570	-.2890	-.1070			-.1860		-.2380				
40.000			.2180	-.4010	-.2820	-.1290			-.1930		-.1300	.0410	-.0260	-.1020	-.1240
55.000			.2380	-.3370	-.2810	-.0940			-.0790		-.1150				
70.000			.2140	-.3390	-.3020	-.0160			.0200		-.1590	-.4100	-.3130	-.2480	-.1330
90.000		.7830	.1560	-.3400	-.2780	.1200			.0970		-.2430	-.4990	-.3570	-.2360	-.1250
120.000			.0910	-.2980	-.1970	.3270			.1350		-.3510	-.5540	-.4800	-.1520	-.0840

AMES 11-7D7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB19)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5560					
150.000			.0790	-.2680	-.0870	.5640			.3280		-.5240	-.5200	-.3850	-.2100	-.0580
157.000								.5630							
162.000									.1950						
165.000											-.6920	-.5000	-.3260	-.2650	-.0660
169.000									.2150						
172.000							.9030								
180.000	1.3710	.6990	.0260	-.1690	-.0110	.7380			.4510		-.6230	-.5090	-.3740	-.2890	-.2020

X/LB	.5815	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2480							.0050		-.0820
40.000	.1480	.0430		-.0510	-.0020	-.2610	-.1610			-.1660
70.000		-.0990	-.2000	-.1860	-.1060	-.1740	-.2460	-.2210		
90.000		-.0490	-.1220	-.0510	-.1670	-.1840	-.2390	-.2220		
105.000				.0000	-.1330	-.1970	-.2300	-.2430		
.000									-.2910	
120.000		-.0270	.0440	.1530	-.1080	-.3540	-.2280	-.2020	-.2740	
135.000				.5490	.2300	-.2900	-.2060	-.2210		
150.000		-.0340	.1210	.3340	.2900	-.1200	-.2000	-.2070		
165.000		-.0490		.3460	.3310	-.0300	-.1330	-.3450		
180.000		-.0850	.0570	.1880						

MACH (2) = 1.244 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1505	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3200	.9640	.0000	-.3020	-.1770	-.1950			-.1680		-.1890	-.0970	.0320	-.0570	-.1770
20.000			.1460	-.4240	-.2330	-.1910			-.2030		-.2760				
40.000			.1050	-.4260	-.3660	-.1900			-.2290		-.2030	-.0130	-.1270	-.1950	-.1910
55.000			.0740	-.4500	-.4070	-.1290			-.0730		-.1810				
70.000			.0330	-.4620	-.4380	-.0390			.0190		-.2260	-.4740	-.3770	-.2990	-.0160
90.000		.6100	-.0200	-.4630	-.4170	.1110			.0540		-.2870	-.5540	-.4650	-.2150	-.0670
120.000			-.0560	-.3950	-.3210	.2490			-.0150		-.4080	-.5960	-.5220	-.1810	-.0740
142.000										-.6260					
150.000			-.0370	-.3210	-.1590	.3930			.1950		-.6420	-.5460	-.3580	-.3300	-.0970
157.000								.4140							
162.000									.1020						
165.000											-.6960	-.5640	-.3650	-.3870	-.1730
169.000									.1800						
180.000							.7720								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB19)

MACH (2) = 1.244 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3200	.6540	-.0170	-.2010	.0150	.5980			.4000		-.6600	-.4560	-.5020	-.5510	-.3340
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2530							.0120		-.0670					
40.000	.1430	-.0910		-.1610	-.1810	-.1750	-.1600			-.2400					
70.000		-.0740	-.1990	-.1510	-.0670	-.1770	-.2550	-.3040							
90.000		-.0330	-.1280	-.0270	-.1630	-.1900	-.2760	-.2970							
105.000				.0250	-.1480	-.2050	-.2660	-.3080							
110.000									-.3320						
120.000		-.0030	.0080	.2540	-.1440	-.3920	-.2910	-.2550	-.3260						
135.000				.6110	.2600	-.2990	-.2660	-.3090							
150.000		-.0350	.0370	.2360	.0740	-.2260	-.2960	-.3450							
165.000		-.0190		.2760	.2850	-.1160	-.2040	-.3870							
180.000		-.1280	.0160	.1610											

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB2D) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3959	.5120
PHI															
.000	1.2530	.7690	.0000	-.5640	-.3140	-.1460			-.1350		.0050	-.0200	-.1060	-.1480	-.0240
20.000			.2650	-.4000	-.3140	-.0840			-.0540		-.1151				
40.000			.5550	-.1220	-.0220	-.1550			.0350		-.0590	.0300	.0060	-.0090	.1340
55.000			.6590	.0610	.1430	.0940			.2550		1460				
70.000			.6420	.0590	.0350	.1730			.2760		.1200	-.3080	-.2170	-.1210	-.0860
90.000		1.1100	.5120	-.0500	.1260	.2560			.3160		.0680	-.4070	-.2510	-.2080	-.1970
120.000			.2810	-.1610	.0650	.3830			.4600		-.1270	-.4960	-.4980	-.3150	-.3150
142.000										-.2740					
150.000			.1150	-.32	.0460	.6070			.3810		-.4990	-.4670	-.4420	-.3160	-.1660
157.000								.6900							
162.000									.2790						
165.000											-.4890	-.3470	-.4130	-.2710	-.1550
169.000									.0570						
172.000							.8360								
180.000	1.2530	.5880	-.1200	-.3460	-.0540	.6220			.3380		-.8980	-.5830	-.7720	-.6260	-.2570

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1740							.0590		-.0770
40.000	.3210	.4440		.2670	.0750	-.3660	-.2860			-.1070
70.000		-.0940	-.3310	-.4130	-.0240	-.0090	-.1460	-.0400		
90.000		-.0780	-.2940	-.0300	-.1990	.0130	-.1480	-.1020		
105.000				.0230	-.0650	-.0050	-.1610	-.1330		
110.000									-.1670	
120.000		-.1590	-.2550	.5220	-.0160	-.1980	-.1790	-.0760	-.0280	
135.000				.2240	.0260	-.4420	-.1680	-.0110		
150.000		-.0230	.0360	.1080	-.0680	-.2480	-.0460	-.0340		
165.000		-.0167		.1560	.1590	-.1270	-.0620	-.2910		
180.000		-.0110	.0290	.1520						

AMES 11-7OT IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB2O)

MACH (1) = 1.101 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3000	.7700	.0000	-.4700	-.1580	-.1640			.0780		.0410	.0000	-.0510	-.0800	.0410
20.000			.1220	-.5060	-.2520	-.1680			.1120		.0240				
40.000			.3930	-.2500	-.1600	-.1450			.1410		.0290	-.0010	-.0250	-.0380	.1070
55.000			.4960	-.1300	-.0360	-.0400			.2400		.1150				
70.000			.4800	-.1350	-.0710	.0470			.2490		.0600	-.3510	-.2900	-.1850	-.1480
90.000		1.0060	.3730	-.1930	-.0610	.1910			.2730		-.0120	-.4480	-.3280	-.2430	-.2050
120.000			.1970	-.2600	-.0650	.3590			.3470		-.2150	-.5280	-.4900	-.3100	-.1820
142.000										-.4260					
150.000			.0860	-.3570	-.0450	.6120			.3600		-.5330	-.5420	-.4400	-.2290	-.1070
157.000								.6620							
162.000									.2450						
165.000											-.7320	-.4120	-.4080	-.1950	-.0930
169.000									.0940						
172.000							.6820								
180.000	1.3000	.6240	-.0940	-.3130	-.1210	.7010			.3780		-.8610	-.5950	-.4210	-.2680	-.1220

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1850							.0120		-.0940
40.000	.2540	.3440		.1730	-.0080	-.3840	-.1860			-.1110
70.000		-.0760	-.3220	-.3610	-.1230	-.0780	-.1320	-.0170		
90.000		-.0530	-.2770	-.0450	-.2160	-.1530	-.1560	-.0540		
105.000				.0340	-.1240	-.2220	-.1810	-.0870		
110.000									-.1980	
120.000		-.0790	-.1440	.4300	-.0820	-.3450	-.1710	-.0250	-.0720	
135.000				.3470	.0670	-.3900	-.2430	-.0310		
150.000		-.0070	.0930	.1660	.0260	-.2460	-.1530	-.1710		
165.000		.0010		.2030	.1970	-.1460	-.1430	-.3460		
180.000		.0200	.0750	.1950						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.7330	.0000	-.3730	-.1140	-.0130			.0920		.0650	.0260	-.0170	-.0470	.0700
20.000			-.0340	-.4590	-.0730	-.0480			.0950		.0470				
40.000			.1940	-.4610	-.0790	-.1020			.1370		.0260	-.0140	-.0550	-.0810	.0640
55.000			.2960	-.3430	-.1620	-.0750			.2050		.0560				
70.000			.2930	-.3270	-.2310	.0330			.2130		-.0020	-.3888	-.3618	-.2770	-.0890
90.000		.8580	.2100	-.3470	-.2350	.1460			.2220		-.0750	-.4850	-.4000	-.3160	-.1898
120.000			.0860	-.3520	-.2020	.3110			.2300		-.2809	-.5600	-.5119	-.2378	-.0788

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB20)

MACH (1) = .099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6650					
150.000			.0270	-.3850	-.1120	.5760			.3040		-.5680	-.5540	-.4320	-.1840	-.0470
157.000								.5700							
162.000									.1690						
165.000											-.8620	-.4740	-.3510	-.1760	-.0360
169.000									.1050						
172.000							.8700								
180.000	1.2990	.6710	-.0920	-.3000	-.1050	.7410			.3880		-.8300	-.6120	-.3080	-.1950	-.0360

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1960							.0010		-.0290
40.000	.1750	.2090		.0710	-.0760	-.1280	-.1350			-.1220
70.000		-.1030	-.3260	-.3000	-.1320	-.2160	-.2630	.0000		
90.000		-.0750	-.2500	-.0940	-.2110	-.2060	-.3280	.0370		
105.000				-.0110	-.1600	-.2700	-.3400	-.1620		
110.000									-.1310	
120.000		-.0300	.0590	.2540	-.1590	-.3970	-.2560	-.2920	-.0740	
135.000				.3570	.1260	-.3440	-.2680	-.2360		
150.000		.0100	.1100	.2440	.1540	-.2090	-.2350	-.2860		
165.000		.0260		.2400	.2400	-.1160	-.1660	-.3910		
180.000		.0380	.0750	.2020						

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3050	.7720	.0000	-.4310	-.1900	-.1620			.0780		.0340	.0030	-.0470	-.0800	.0400
20.000			-.0830	-.4850	-.1650	-.1790			.0850		.0220				
40.000			.0330	-.5140	-.0820	-.1810			.1090		-.0020	-.0690	-.1260	-.1640	.0150
55.000			.0850	-.5170	-.3010	-.1740			.1570		-.0010				
70.000			.0750	-.5040	-.4000	-.0790			.1640		-.0700	-.4490	-.4360	-.3640	-.0440
90.000		.6870	.0300	-.5040	-.4070	.0230			.1440		-.1640	-.5420	-.4780	-.3270	-.0520
120.000			-.0390	-.4610	-.3380	.2030			.0530		-.3830	-.6200	-.5520	-.2050	-.0350
142.000										-.7710					
150.000			-.0460	-.4310	-.2000	.4860			.2020		-.6860	-.6130	-.3350	-.1960	-.0450
157.000								.4330							
162.000									.0610						
165.000											-.9090	-.5820	-.3080	-.1970	-.0560
169.000									.0870						
.000							.8050								

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB2D)

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3050	.6490	-.1020	-.3150	-.1150	.7010			.3600		-.8350	-.5890	-.4090	-.2540	-.1330

X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							-.0250		-.0860
40.000	.1250	.0020		-.0120	-.1350	-.1490	-.1470			-.1830
70.000		-.0910	-.2400	-.1690	-.0930	-.2660	-.3490	-.2580		
90.000		-.0310	-.1140	-.0910	-.1620	-.2550	-.3660	-.3710		
105.000				-.0390	-.1750	-.2530	-.3690	-.3870		
110.000									-.4180	
120.000		.0300	.0660	.0880	-.2210	-.3830	-.3120	-.3480	-.3940	
135.000				.5170	.1590	-.4060	-.3270	-.3160		
150.000		.0630	.1350	.3960	.2080	-.2400	-.3260	-.3450		
165.000		.0630		.3500	.2950	-.1630	-.2570	-.4140		
180.000		.0350	.0790	.1940						

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2380	.7660	.0000	-.5430	-.3250	-.1370			-.1300		.0280	-.0300	-.1060	-.1240	.0100
20.000			-.1160	-.6760	-.1930	-.2100			-.1440		.0090				
40.000			-.1390	-.6770	-.2470	-.2650			.0500		-.0880	-.1840	-.2670	-.2840	.0310
55.000			-.1290	-.6840	-.5040	-.1760			.0620		-.0670				
70.000			-.1610	-.6780	-.5940	-.0540			.0370		-.1470	-.5150	-.5050	-.4350	.0260
90.000		.4810	-.1830	-.6590	-.5810	.0300			-.0410		-.2670	-.6000	-.5490	-.3000	.0250
120.000			-.2010	-.5760	-.4770	.1510			-.1160		-.5350	-.6960	-.5560	-.2410	.0270
142.000										-.8440					
150.000			-.1690	-.4880	-.2680	.3630			.0760		-.8500	-.7180	-.4000	-.2710	-.0280
157.000								.2850							
162.000									-.0380						
165.000											-.9240	-.7080	-.4470	-.3130	-.0900
169.000									.0490						
172.000							.6750								
180.000	1.2380	.5700	-.1460	-.3510	-.3750	.5900			.3060		-.8730	-.6100	-.6320	-.6980	-.2460

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							-.0130		-.0770
40.000	.0910	.0070		-.1930	-.2020	-.1840	-.1720			-.2170

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB20)

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0990	-.2700	-.1710	-.0950	-.2570	-.3370	-.3740		
90.000		-.0440	-.1720	-.0930	-.1990	-.2500	-.3630	-.3690		
105.000				-.0420	-.2430	-.2500	-.3730	-.3760		
110.000									-.4320	
120.000		.0130	-.0110	.1140	-.2650	-.4650	-.3300	-.3590	-.4210	
135.000				.5880	.1730	-.4100	-.3570	-.3500		
150.000		.0200	.0440	.2490	.0150	-.3180	-.4230	-.4420		
165.000		.0310		.2750	.2390	-.2980	-.3400	-.4420		
180.000		-.0220	.0180	.1430						

MACH (2) = 1.246 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3140	.9370	.0000	-.3360	-.2340	-.1020			-.1520		-.1890	-.1700	-.1610	.0320	-.1190
20.000			.4540	-.1940	-.1930	-.1420			-.1060		-.1090				
40.000			.7130	.0780	.0800	-.1060			-.2070		.0380	.0250	-.0360	.0110	.0850
55.000			.7970	.2270	.2180	.0960			.0450		.1710				
70.000			.7660	.2230	.1840	.0980			.1480		.1380	-.1920	-.1890	-.0720	-.0630
90.000		1.1870	.6280	.1160	.1870	.1070			.3160		.0790	-.2740	-.2440	-.1510	-.1340
120.000			.3820	-.0280	.1160	.1210			.4870		-.1040	-.3760	-.3820	-.2520	-.2550
142.000										-.1690					
150.000			.2120	-.1880	.0330	.5840			.4810		-.4150	-.3940	-.3300	-.2770	-.2020
157.000								.8070							
162.000									.3840						
165.000											-.4080	-.2800	-.3080	-.2420	-.1530
169.000									.1710						
172.000							.9120								
180.000	1.3140	.6580	-.0160	-.2290	-.0680	.5010			.4050		-.6960	-.5190	-.5700	-.5580	-.2690

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							.0750		-.0620
40.000	.3050	.4540		.3210	.1610	-.2120	-.3880			.0200
70.000		-.0790	-.2670	-.3550	-.1370	-.1310	-.1730	-.1250		
90.000		-.0930	-.2480	-.0530	-.1750	-.1430	-.2010	-.1980		
105.000				.0550	.0320	-.1430	-.2510	-.2690		
110.000									-.2400	
120.000		-.1950	-.2400	.5840	.0870	-.2010	-.2510	-.2510	-.1670	
135.000				.2010	.0720	-.3680	-.2490	-.1100		
150.000		-.0660	.0190	.1150	-.0100	-.1840	-.0500	-.0730		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB20)

MACH (2) = 1.246 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0590		.1400	.1610	-.0570	-.0270	-.2380		
180.000		-.0690	.0260	.1590						

MACH (2) = 1.248 BETAT (2) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3700	.9600	.0000	-.3880	-.2720	-.0370			-.1500		-.2520	.1750	.1070	-.0260	-.0930
20.000			.3670	-.2940	-.2710	-.0240			-.1320		-.1840				
40.000			.5810	-.0710	-.0270	-.0040			-.1150		.0170	-.0280	.1040	.0220	.0170
55.000			.6460	.0440	.0800	-.0120			-.0100		.0500				
70.000			.6130	.0290	.0340	-.0020			.1450		.0020	-.2410	-.2250	-.1150	-.1340
90.000		1.0870	.4880	-.0410	.0440	.0180			.2460		-.0400	-.3110	-.3150	-.1820	-.1820
120.000			.2920	-.1280	.0130	.2160			.3490		-.1830	-.4270	-.3860	-.2530	-.2130
142.000										-.3520					
150.000			.1750	-.2250	-.0170	.6140			.4570		-.4160	-.4780	-.3670	-.2600	-.1260
157.000								.7890							
162.000									.3500						
165.000											-.6100	-.3590	-.3540	-.2360	-.1030
169.000									.2090						
172.000							.9460								
180.000	1.3700	.7000	.0000	-.2020	-.0660	.6360			.4560		-.6540	-.4700	-.4100	-.3310	-.1850

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2270							.0500		-.0650
40.000	.2500	.3780		.2390	.1080	-.2510	-.1840			-.0570
70.000		-.1310	-.2470	-.3300	-.1330	-.1390	-.2040	-.2340		
90.000		-.1090	-.2010	-.0320	-.1640	-.1760	-.2310	-.2580		
105.000				.0740	-.0220	-.1750	-.2710	-.2770		
110.000									-.2820	
120.000		-.1030	-.1350	.4800	.0340	-.2450	-.2650	-.2360	-.2140	
135.000				.3050	.1290	-.3200	-.1870	-.1230		
150.000		-.0570	.0680	.1450	.0660	-.1630	-.0820	-.1150		
165.000		-.0560		.1810	.2140	-.0540	-.0600	-.2640		
180.000		-.0560	.0460	.1850						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB20)

MACH (2) = 1.245 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2289	.2711	.3200	.3953	.5120
PHI															
.000	1.3840	.9270	.0000	-.2000	-.2340	-.0340			-.1440		-.2340	.1730	.0780	.0100	-.0200
20.000			.1340	-.2950	-.1980	-.0690			-.1530		-.1980				
40.000			.3340	-.2940	-.1410	-.0900			-.1440		-.1790	.0970	.0260	-.0170	-.0150
55.000			.4180	-.1790	-.1080	-.0640			-.0800		-.0800				
70.000			.4110	-.1720	-.1370	-.0410			.0650		-.1720	-.2730	-.2430	-.1960	-.1770
90.000		.9400	.3240	-.2020	-.1250	-.0050			.1500		-.1310	-.4490	-.2850	-.2370	-.1820
120.000			.1880	-.2170	-.0980	.3010			.2070		-.1750	-.4900	-.4330	-.2440	-.1310
142.000										-.4910					
150.000			.1260	-.2550	-.0670	.6010			.4000		-.4670	-.5270	-.4050	-.1920	-.0660
157.000								.6840							
162.000									.2790						
165.000											-.5650	-.4460	-.3870	-.1880	-.0540
169.000									.2180						
172.000							.9550								
180.000	1.3840	.7040	.0100	-.1900	-.0460	.7260			.4670		-.5450	-.5720	-.3280	-.2600	-.0450

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1850							.0160		-.0350
40.000	.1470	.2320		.1240	.0240	-.3090	-.1510			-.1110
70.000		-.1320	-.2310	-.2710	-.1630	-.1490	-.2260	-.2790		
90.000		-.0760	-.1710	-.0490	-.1610	-.2180	-.2610	-.2760		
105.000				.0270	-.0790	-.2180	-.2900	-.2830		
110.000									-.3090	
120.000		-.0550	.0680	.2710	-.0320	-.3060	-.2700	-.2340	-.2520	
135.000				.3280	.1790	-.2650	-.1880	-.1780		
150.000		-.0350	.1210	.2290	.1780	-.1180	-.1450	-.1980		
165.000		-.0290		.2320	.2270	-.0100	-.0880	-.3030		
180.000		-.0300	.0910	.2000						

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2289	.2711	.3200	.3953	.5120
PHI															
.000	1.3640	.9450	.0000	-.3170	-.2670	-.0380			-.1490		-.2550	.1800	.1030	-.0280	-.0910
20.000			.1240	-.4050	-.2420	-.0690			-.1640		-.2730				
40.000			.1960	-.4000	-.2230	-.1030			-.1780		-.1980	.0620	-.0100	-.0850	-.0950
55.000			.2210	-.3470	-.2770	-.1070			-.0960		-.1770				
70.000			.2010	-.3430	-.3110	-.0470			.0120		-.1	-.3420	-.3000	-.2530	-.1650
90.000		.7690	.1390	-.3510	-.2970	.0370			.0950		-.2	-.5020	-.3460	-.2660	-.1520
120.000			.0610	-.3220	-.2230	.3040			.1120		-.1	-.5470	-.4920	-.1790	-.0970

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB2D)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5590					
150.000			.0370	-.2990	-.1290	.5340			.3210		-.5330	-.5420	-.3910	-.1930	-.0570
157.000								.5780							
162.000									.1820						
165.000											-.7000	-.5150	-.3430	-.2410	-.0580
169.000									.2000						
172.000							.8970								
180.000	1.3640	.6890	-.0150	-.2060	-.0600	.6770			.4320		-.6390	-.4940	-.4050	-.3110	-.1930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2240							-.0050		-.0780
43.000	.1290	.0240		.0550	-.0860	-.1840	-.1410			-.1660
70.000		-.1170	-.2300	-.2170	-.1340	-.1690	-.2170	-.2460		
90.000		-.0560	-.1520	-.0650	-.2040	-.1740	-.2380	-.2380		
105.000				-.0230	-.1390	-.1910	-.2340	-.2600		
110.000									-.3190	
120.000		-.0240	.0140	.1170	-.1060	-.3220	-.2580	-.2220	-.2730	
135.000				.5390	.2230	-.2690	-.2210	-.2330		
150.000		-.0160	.0880	.3310	.2650	-.1190	-.1820	-.2240		
165.000		-.0270		.3330	.3190	-.0360	-.1320	-.3440		
180.000		-.0640	.0450	.1830						

MACH (2) = 1.243 BETAT (5) = 7.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3250	.9260	.0000	-.3560	-.2750	-.0160			-.1620		-.1980	-.1230	.0700	-.0030	-.1190
20.000			.0800	-.4920	-.2990	-.0910			-.1940		-.2750				
40.000			.0810	-.4950	-.3410	-.1670			-.2260		-.1790	.0240	-.0960	-.1180	-.1440
55.000			.0900	-.4580	-.3700	-.1430			-.0990		-.1510				
70.000			.0470	-.4580	-.4190	-.0420			.0000		-.2000	-.4210	-.3480	-.2960	-.1360
90.000		.6290	.0040	-.4500	-.4030	.1010			.0600		-.2720	-.5400	-.4040	-.2550	-.1190
120.000			-.0460	-.3950	-.3140	.2790			-.0040		-.3960	-.5930	-.5320	-.1750	-.0820
142.000										-.6110					
150.000			-.0390	-.3330	-.1850	.3970			.2370		-.6290	-.5560	-.3720	-.2690	-.0750
157.000								.4980							
162.000									.1190						
165.000											-.7120	-.5650	-.3940	-.3580	-.1130
169.000									.1810						
172.000							.8370								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB20)

MACH (2) = 1.243 BETAT (5) = 7.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2289	.2711	.3200	.3993	.5120
PHI															
180.000	1.3250	.6430	-.0320	-.2290	-.0700	.5510			.4000		-.6[illegible]	-.4700	-.4870	-.5750	-.2560
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2160							.0020		-.0760					
40.000	.1280	-.0980		-.1040	-.1470	-.1550	-.1430			-.2030					
70.000		-.0680	-.2170	-.1840	-.1000	-.1870	-.2640	-.3190							
90.000		-.0190	-.1410	-.0510	-.1960	-.2070	-.2810	-.3000							
105.000				-.0200	-.1580	-.2230	-.2760	-.3090							
110.000									-.3450						
120.000		.0190	-.0160	.2050	-.1[illegible]	-.3970	-.3010	-.2540	-.3100						
135.000				.6050	.2[illegible]30	-.3120	-.2610	-.2990							
150.000		.0350	.0590	.3080	.1910	-.1670	-.2470	-.3010							
165.000		.0600		.3310	.3070	-.0920	-.1830	-.3850							
180.000		-.1210	.0020	.1330											

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMB21) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.9490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDPLR = .000

MACH (1) = *.100 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1508	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2260	.7610	.0000	-.3340	-.0050	.0080			.1070		-.0430	-.1330	-.2330	-.3460	-.4030
20.000			.2420	-.2060	-.0420	-.1230			.1280		-.0280				
40.000			.4470	-.0320	.1240	-.1580			-.1130		-.1120	-.1700	-.1770	-.1900	-.1270
55.000			.5470	.1360	.2090	.2030			.1850		.1450				
70.000			.6390	.2150	.2900	.2970			.2430		.1550	-.3040	-.2130	.0000	.0120
90.000		1.1140	.6400	.2690	.3510	.3490			.2690		.1480	-.3760	-.2910	-.0100	-.0080
120.000			.6360	.3970	.4530	.5120			.3650		.1430	-.3950	-.1880	-.0500	-.0090
142.000										-.2140					
150.000			.5810	.4290	.4770	.7550			.5350		-.1960	-.1950	-.1820	-.1230	-.0580
157.000								.7860							
162.000									.4590						
165.000											-.3670	-.1610	-.1770	-.1180	-.0540
169.000									.3350						
172.000							.9500								
180.000	1.2260	.8730	.3850	.3720	.3730	.7930			.5750		-.6770	-.2960	-.4010	-.2710	-.2940

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1260							-.0250		-.1710
40.000	.2360	.3510		-.0880	-.1240	-.4450	-.3400			-.1980
70.000		.0850	.0270	.1670	.2200	.0200	.0070	.1210		
90.000		.1000	.1330	.2440	.1820	.0100	-.0330	.1430		
105.000				.3020	.1510	.0100	-.0330	.1190		
110.000									-.1800	
120.000		.0730	.2940	.5410	.0560	-.0350	.0430	.0900	-.0410	
135.000				.5930	.2910	.0890	.1590	.1160		
150.000		.0300	.3120	.3730	.1780	.2160	.2420	.1080		
165.000		.0520		.4340	.3890	.3200	.2900	-.1410		
180.000		-.2210	.1390	.2280						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (1) = 1.104 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3010	.7800	.0000	-.5050	-.2640	.1790			.1040		-.0130	-.1290	-.2190	-.3300	-.1180
20.000			.2030	-.3940	-.1460	.1630			.1020		-.0240				
40.000			.3340	-.2760	.0020	.0700			.0150		-.1180	-.1730	-.2080	-.2510	-.1630
55.000			.3910	-.1900	.1360	.2050			.1470		-.0040				
70.000			.4150	-.1390	.1790	.2550			.1760		-.0310	-.3770	-.3220	-.0730	-.0200
90.000		.9970	.4160	-.0560	.2500	.2750			.1740		-.0680	-.4420	-.3820	-.0850	-.0400
120.000			.4470	.1740	.3680	.4290			.2140		-.0580	-.4630	-.2360	-.1080	-.0300
142.000										-.5290					
150.000			.4600	.3020	.4590	.7240			.4820		-.3140	-.2340	-.2170	-.1360	-.0500
157.000								.7250							
162.000									.4020						
165.000											-.6470	-.2260	-.2250	-.1340	-.0590
169.000									.3470						
172.000							.9800								
180.000	1.3010	.9170	.3320	.3130	.4380	.8590			.6110		-.6740	-.3550	-.2630	-.1610	-.1020

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							-.0420		-.1450
40.000	.2070	.2700		-.1900	-.2440	-.4730	-.3290			-.2340
70.500		.0920	.1300	.1430	.1540	-.0280	-.0920	.0010		
90.000		.1090	.1940	.2000	.1040	-.0320	-.0940	-.0130		
105.000				.2380	.0350	-.0329	-.0840	-.0490		
110.000									-.2510	
120.000		.0950	.3460	.4320	-.0570	-.0920	-.0140	-.0510	-.1590	
135.000				.7060	.3110	-.0720	.0750	.0210		
150.000		.0610	.3750	.4700	.3100	.0810	.1490	.0290		
165.000		.0530		.4940	.4600	.1970	.1650	-.2020		
180.000		-.0170	.3110	.4110						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.78	.0000	-.5080	-.2430	.1690			.1210		.0050	-.1260	-.2090	-.2790	.0560
20.000			.1480	-.4510	-.2930	.1790			.1180		-.0210				
40.000			.2120	-.3810	-.1560	.1360			.0670		-.0930	-.1830	-.2460	-.3010	-.0290
55.000			.2800	-.3590	.1230	.1790			.1000		-.0840				
70.000			.2420	-.3430	.1660	.2050			.1090		-.1460	-.4370	-.3970	-.1100	-.0460
90.000		.8520	.2360	-.2820	.1720	.2000			.0850		-.1920	-.4960	-.4450	-.1160	-.0640
70.000			.3050	.0020	.2580	.3180			.0690		-.0240	-.5230	-.2920	-.1550	-.0700

DATE 13 SEP 72 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6310					
150.000			.3780	.2280	.3990	.6480			.4040		-.4240	-.3260	-.2030	-.1560	-.0620
157.000								.6130							
162.000									.3110						
165.000											-.7370	-.29.0	-.1670	-.1350	-.0620
169.000									.3370						
172.000							.9620								
180.000	1.3090	.9270	.3400	.3190	.4610	.8750			.6210		-.6540	-.4900	-.1730	-.1320	-.0540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1840							-.0160		-.1210
40.000	.1490	.1460		-.2910	-.2780	-.3360	-.3170			-.2520
70.000		.1090	.1490	.1150	.0990	-.0910	-.1600	-.0980		
90.000		.1230	.2120	.1470	.0400	-.1130	-.1520	-.1150		
105.000				.1490	-.0460	-.1240	-.1420	-.1460		
110.000									-.3070	
120.000		.1120	.3440	.2540	-.1750	-.1880	-.1090	-.1360	-.2480	
135.000				.7440	.2780	-.2430	-.0750	-.0940		
150.000		.0680	.3890	.5670	.4020	-.0340	-.0410	-.0750		
165.000		.0480		.5330	.4810	.0650	.0250	-.3000		
180.000		.0170	.3580	.4600						

MACH (1) = 1.101 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2840	.7650	.0000	-.5060	-.2440	.1790			.1050		-.0110	-.1170	-.0140	-.2980	-.0780
20.000			.0900	-.4880	-.3170	.1730			.1000		-.0410				
40.000			.0900	-.4650	-.3080	.1600			.0780		-.1060	-.2150	-.2910	-.3720	.0030
55.000			.0760	-.4820	-.2370	.1500			.0580		-.1420				
70.000			.0750	-.4830	-.0410	.1520			.0470		-.2350	-.4960	-.4540	-.1320	-.0540
90.000		.6980	.0820	-.4220	-.0720	.1150			-.0010		-.2910	-.5530	-.4930	-.1570	-.0850
120.000			.1780	-.1620	.0700	.1790			-.0840		-.1790	-.5870	-.3200	-.2360	-.1160
142.000										-.7220					
150.000			.3030	.1330	.2940	.5380			.3060		-.6120	-.4260	-.2080	-.1920	-.0840
157.000								.4640							
162.000									.1970						
165.000											-.7690	-.4250	-.1580	-.1980	-.1500
169.000									.3010						
172.000							.9030								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (1) = 1.101 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
160.000	1.2840	.9230	.3410	.3130	.4410	.8500			.5960		-.6380	-.3360	-.2390	-.1670	-.1030
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1910							-.0240		-.1530					
40.000	.1260	-.0290		-.2540	-.2220	-.2600	-.2480			-.2750					
70.000		.1480	.1660	.0910	.0710	-.1480	-.2120	-.1640							
90.000		.1540	.2180	.1260	.0040	-.1690	-.1980	-.1870							
105.000				.0910	-.1380	-.1790	-.1960	-.2060							
110.000									-.3550						
120.000		.1660	.3190	.1090	-.3030	-.3030	-.1940	-.2150	-.3170						
135.000				.7150	.2130	-.3880	-.3660	-.2430							
150.000		.1030	.3560	.4920	.4170	-.0640	-.1500	-.2980							
165.880		.0200		.4880	.4500	-.0320	-.0940	-.3830							
180.000		-.0070	.3190	.4120											

MACH (1) = 1.100 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2420	.7540	.0000	-.5080	-.1330	-.0070			.1090		-.2830	-.1360	-.2440	-.2950	-.4060
20.000			.0170	-.5350	-.1950	.1550			.0910		-.2790				
40.000			-.0390	-.5640	-.4260	.1630			.0740		-.1360	-.2630	-.3740	-.4660	-.0900
55.000			-.0830	-.6120	-.6230	.1320			.0500		-.1770				
70.000			-.1070	-.6210	-.3900	.0700			.0130		-.2960	-.5520	-.5120	-.1700	-.0760
90.000		.5260	-.0910	-.5590	-.2850	-.0180			-.0660		-.3790	-.6160	-.4800	-.1970	-.0940
120.000			.0240	-.3260	-.1060	.0210			-.2660		-.4910	-.6520	-.3640	-.3170	-.1800
142.000										-.7870					
150.000			.1950	.0120	.1490	.3870			.1550		-.7090	-.4780	-.2860	-.2240	-.2290
157.000								.3040							
162.000									.0870						
165.000											-.6020	-.4260	-.3780	-.3680	-.3010
169.000									.2470						
172.000							.7870								
180.000	1.2420	.8830	.3050	.2640	.3680	.7750			.5370		-.6360	-.3480	-.3880	-.2700	-.2680
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1220							-.0030		-.1750					
.000	.0790	-.0850		-.2790	-.2810	-.2860	-.2860			-.3230					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OPA + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (1) = 1.100 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1460	.1620	.0680	.0500	-.2120	-.2660	-.2470		
90.000		.1290	.1890	.1050	-.0220	-.2060	-.2540	-.2410		
105.000				.1030	-.1660	-.2230	-.2630	-.2670		
110.000									-.3930	
120.000		.1400	.2830	.1240	-.3580	-.3600	-.2950	-.3140	-.3570	
135.000				.4620	.1980	-.4580	-.5280	-.5320		
150.000		-.0770	.2280	.3390	.2910	-.1080	.2430	-.3380		
165.000		-.0810		.3380	.2900	-.1250	-.1960	-.4050		
180.000		-.1580	.0920	.2290						

MACH (2) = 1.245 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2269	.2711	.3200	.3953	.5120
PHI															
.000	1.2980	.8730	.0000	-.2550	-.0680	-.2320			-.0140		.1550	.0270	-.0890	-.2110	-.3290
20.000			.4020	-.1550	-.0460	-.2100			.0070		.1470				
40.000			.5970	.0270	.1370	-.2110			-.0640		-.1100	-.0110	-.0430	-.1220	-.1080
55.000			.6860	.1760	.3070	.1450			.2810		.1590				
75.000			.7120	.2220	.3610	.2860			.3310		.1500	-.1760	-.1440	.0390	.0450
90.000		1.2020	.6910	.2460	.4075	.3780			.3550		.1200	-.2370	-.2090	.0300	.0260
120.000			.6410	.3380	.4830	.5740			.4610		.1170	-.2710	-.1160	-.0120	.0160
142.000										-.1270					
150.000			.5630	.3580	.4850	.8240			.6320		-.1460	-.1160	-.1260	-.0890	-.0190
157.000								.8760							
162.000									.5570						
165.000											-.3050	-.1010	-.1030	-.0380	-.0130
169.000									.4290						
172.000							1.0270								
180.000	1.2980	.9170	.3490	.2920	.3900	.8650			.6570		-.5410	-.2270	-.2970	-.2340	-.2560

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	39	1.0015	1.0392
PHI										
.000	-.3340							.0090	-.1490	
40.000	-.1000	.3530		.0190	-.0610	-.2700	-.5440		-.0050	
70.000		-.0460	.0020	.0700	.2060	.0790	.0050	.0350		
90.000		-.0300	.0450	.1890	.1330	.0760	-.0240	.0620		
105.000				.2500	.1330	.0750	-.0410	.0390		
110.000									-.0920	
120.000		-.0350	.1220	.3670	.1330	-.0260	.0700	.1190	.0030	
135.000				.5840	.3300	-.1210	.2330	.2200		
150.000		-.0510	.1660	.3140	.1840	.2260	.3160	.2180		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB21)

MACH (2) = 1.245 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0320		.3950	.4260	.3540	.3620	-.0150		
180.000		-.2760	- 0390	.1230						

MACH (2) = 1.252 BETAT (2) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3650	.9170	.0000	-.2620	-.0970	-.0620			.2680		.1640	.0370	-.0710	-.1950	-.2770
20.000			.3620	-.1930	-.0620	-.1170			.2060		.1560				
40.000			.4870	-.0810	.0960	-.1860			-.0400		.0520	-.0030	-.0590	-.1500	-.1670
55.000			.5400	-.0120	.2760	.0880			.1490		.1200				
70.000			.5530	.0090	.3230	.2150			.2050		.0330	-.2030	-.1660	-.0240	.0060
90.000		1.0830	.5280	.0280	.3590	.2980			.2040		-.0100	-.2610	-.2310	-.0310	-.0060
120.000			.5240	.1780	.4200	.5000			.3140		-.0460	-.3080	-.1460	-.0660	-.0110
142.000										-.3530					
150.000			.5130	.2920	.4770	.7990			.5890		-.2030	-.1660	-.1360	-.0940	-.0160
157.000								.8220							
162.000									.5130						
165.000											-.4730	-.1470	-.1460	-.0870	-.0210
169.000									.4530						
172.000							1.0590								
180.000	1.3650	.9620	.3770	.3030	.4470	.9270			.6960		-.4730	-.2830	-.2260	-.1260	-.0740

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.2210							-.0030		-.1250
40.000	-.1460	.2360		-.0650	-.1750	-.3110	-.3120			-.0410
70.000		-.0900	.0120	.0900	.1560	.0270	-.0430	.0060		
90.000		-.0620	.0630	.1550	.0940	.0260	-.0590	.0120		
105.000				.1890	.0610	.0270	-.0670	.0040		
110.000									-.1270	
120.000		-.0330	.1660	.4550	.0370	-.1040	.0210	.0480	-.0630	
135.000				.7140	.3600	-.0810	.1060	.1110		
150.000		-.0180	.1720	.3710	.3230	.1320	.1780	.1130		
165.000		-.0140		.4300	.5170	.2580	.2300	-.0960		
180.000		-.0450	.1030	.3150						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3700	.9180	.0000	-.2840	-.0720	.1270			.2630		.1520	.0320	-.0620	-.1690	-.2540
20.000			.3030	-.2470	-.1030	.1250			.2190		.1270				
40.000			.3610	-.1840	-.0320	-.1410			.1060		.0420	-.0300	-.1000	-.1850	-.1940
55.000			.3770	-.1660	.0170	.0600			.1850		.0450				
70.000			.3820	-.1670	.1250	.1740			.0870		-.0330	-.2850	-.2480	-.0800	-.0130
90.000		.9430	.3650	-.1270	.2450	.2350			.1250		-.0910	-.3210	-.3090	-.0820	-.0230
120.000			.4030	.0020	.2990	.4100			.1860		-.1790	-.3950	-.2110	-.1150	-.0290
142.000										-.4310					
150.000			.4440	.2020	.4280	.7350			.5170		-.2910	-.2610	-.1830	-.1060	-.0280
157.000								.7160							
162.000									.4270						
165.000											-.5430	-.2180	-.1620	-.0890	-.0310
169.000									.4460						
172.000							1.0430								
180.000	1.3700	.9750	.3920	.3040	.4780	.9480			.7080		-.4810	-.3560	-.1390	-.0830	-.0220

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1100							.0240		-.1410
40.000	-.1470	.1270		-.1610	-.2220	-.3560	-.2920			-.1780
70.000		-.1000	.0400	.0980	.1210	-.0180	-.0770	-.0280		
90.000		-.0670	.0900	.1300	.0760	-.0190	-.0830	-.0440		
105.000				.1290	.0100	-.0280	-.0830	-.0571		
110.000									-.1760	
120.000		-.0440	.1780	.3010	-.0710	-.1790	-.0410	-.0420	-.1270	
135.000				.7900	.3490	-.1420	-.0810	-.0280		
150.000		-.0150	.1090	.4150	.4650	.0700	.0340	-.0180		
165.000		-.0130		.4850	.5880	.1730	.1160	-.2040		
180.000		-.0060	.0080	.4300						

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3540	.6930	.0000	-.2820	-.1160	-.0320			.2870		.1670	.0350	-.0690	-.1830	-.2850
20.000			.2420	-.2950	-.1520	.0320			.2740		.1550				
40.000			.2320	-.2840	-.1540	.0420			.2000		.0990	-.0640	-.1520	-.2470	-.2390
55.000			.2100	-.3100	-.1830	.0490			.0910		-.0010				
70.000			.1980	-.3180	-.2040	.1470			.0500		-.0950	-.3420	-.3170	-.1160	-.0300
90.000		.7810	.1970	-.2740	-.1010	.1760			.0500		-.0810	-.3620	-.3610	-.1130	-.0380
120.000			.2630	-.1340	.1230	.2930			.0440		-.0770	-.4720	-.2720	-.1860	-.0670

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.22	.2711	.3200	.3953	.5120
PHI															
142.000										-.5140					
150.000			.3610	.1160	.3110	.6290			.4180		-.41	-.3270	-.1860	-.1260	-.0420
157.000								.5710							
162.000									.3160						
165.000											-.3[illegible]	-.3320	-.1310	-.1370	-.1180
169.000									.4150						
172.000							.9790								
180.000	1.3540	.9660	.3600	.2990	.4400	.9190			.6820		-.45	-.3260	-.2050	-.1200	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0880							.0140		-.1390
40.000	.0020	.0020		-.2060	-.2250	-.2460	-.2310			-.2280
70.000		-.1150	.0650	.1000	.1020	-.0580	-.1220	-.0810		
90.000		-.0850	.1000	.1060	.0540	-.0700	-.1260	-.0910		
105.000				.0890	-.0780	-.0830	-.1260	-.1060		
110.000									-.2280	
120.000		-.0820	.1210	.1470	-.1900	-.2770	-.1210	-.1320	-.1910	
135.000				.6830	.3100	-.2530	-.2610	-.2640		
150.000		-.0400	.0980	.2670	.3810	.0610	-.0520	-.1410		
165.000		-.0890		.2780	.4330	.0960	.0010	-.2760		
180.000		-.0460	.1070	.3160						

MACH (2) = 1.247 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.22	.2711	.3200	.3953	.5120
PHI															
.000	1.3070	.8570	.0000	-.2780	-.0530	-.2500			-.0070		.16	.0640	-.0660	-.1710	-.3230
20.000			.1760	-.3320	-.1290	-.2500			.1940		.1[illegible]				
40.000			.1010	-.3720	-.2830	-.0360			.1920		.1[illegible]	-.1060	-.2120	-.3520	-.2930
55.000			.0490	-.4270	-.3420	.0610			.0100		-.[illegible]				
70.000			.0230	-.4410	-.3710	.1410			.0160		-.[illegible]	-.3840	-.3740	-.1280	-.0560
90.000		.6060	.0330	-.3960	-.3080	.1460			-.0140		-.[illegible]	-.4530	-.3880	-.1360	-.0620
120.000			.1240	-.2390	-.0520	.1850			-.0990		-.[illegible]	-.4270	-.3250	-.2340	-.1100
142.000										-.5730					
150.000			.2590	.0520	.1810	.4610			.2610		-.[illegible]	-.4[illegible]	-.2220	-.1800	-.1900
157.000								.4220							
162.000									.2240						
165.000											-.[illegible]	-.3880	-.2550	-.3120	-.2620
169.000									.3670						
.000							.8610								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB21)

MACH (2) = 1.247 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3070	.9230	.3490	.2730	.3680	.8360			.6250		-.4610	-.2390	-.2630	-.2160	-.2390
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.3110							.0300		-.1620					
40.000	-.0440	-.0260		-.2140	-.2540	-.2520	-.2410			-.3100					
70.000		-.0460	.0930	.1060	.1240	-.0850	-.1560	-.1430							
90.000		-.0530	.1360	.1390	.0540	-.0960	-.1510	-.1370							
103.000				.1390	-.0900	-.1120	-.1590	-.1560							
110.000									-.2690						
120.000		-.0710	.1760	.1640	-.2390	-.2830	-.1960	-.2090	-.2550						
135.000				.4280	.2980	-.3410	-.3690	-.3970							
150.000		-.2350	.0740	.2750	.2880	.0140	-.1210	-.2150							
165.000		-.1670		.2690	.3140	-.0130	-.0950	-.3140							
180.000		-.2410	-.0230	.1450											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB22) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2380	.7800	.0000	-.4890	-.1710	-.0870			.1000		-.0610	-.1470	-.2430	-.3610	-.4070
20.000			.2660	-.3420	-.1910	-.1050			.1250		-.0440				
40.000			.4670	-.1440	-.0090	-.1250			-.1660		-.1170	-.1650	-.1770	-.2020	-.1250
55.000			.5610	.0270	.1880	.2220			.1830		.1250				
70.000			.5880	.0950	.2620	.3020			.2390		.1240	-.3130	-.2300	-.0460	-.0360
90.000		1.1190	.5700	.1320	.3250	.3520			.2680		.1150	-.3890	-.3150	-.0530	-.0600
120.000			.5350	.2480	.4160	.5070			.3630		.1090	-.4180	-.2360	-.0960	-.0580
142.000										-.2480					
150.000			.4520	.2760	.4300	.7400			.5080		-.2620	-.2390	-.2360	-.1760	-.0870
157.000								.7750							
162.000									.4250						
165.000											-.4100	-.2000	-.. 70	-.1690	-.0740
169.000									.2860						
172.000							.9400								
180.000	1.2380	.8330	.2280	.2140	.3260	.7840			.5410		-.7290	-.3490	-.4540	-.3590	-.3330

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1400							-.0120		-.1270
40.000	.24?0	.3730		-.0520	-.0560	-.4310	-.3140			-.1680
70.000		.0510	-.0800	.1180	.2040	.0050	-.0930	.0970		
90.000		.0660	.0260	.2100	.1580	-.0120	-.1010	.0740		
105.000				.2780	.1240	-.0290	-.0730	.0150		
110.000									-.1630	
120.000		.0380	.2370	.5460	.0450	-.1120	.0190	.0130	-.0300	
135.000				.5530	.2580	.0200	.1320	.0920		
150.000		.0130	.2800	.3360	.1390	.1680	.2100	.0880		
165.000		.0550		.4000	.3660	.2650	.2550	-.1510		
180.000		-.2090	.1290	.2200						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB22)

MACH (1) = 1.097 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2459	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.7930	.0000	-.5020	-.2670	.2050			.1130		-.0160	-.1170	-.2080	-.3210	-.0590
20.000			.2260	-.3890	-.2160	.1960			.1150		-.0220				
40.000			.3540	-.2680	.0040	.1050			.0310		-.0990	-.1560	-.1920	-.2440	-.1480
55.000			.4060	-.1910	.1270	.2110			.1600		-.0280				
70.000			.4140	-.1600	.1610	.2320			.1820		-.0240	-.3720	-.3190	-.1030	-.0360
90.000		.9900	.3930	-.1140	.2290	.2630			.1800		-.1650	-.4390	-.3880	-.1110	-.0520
120.000			.3930	.1010	.3340	.4130			.2220		-.1980	-.4740	-.2690	-.1370	-.0500
142.000										-.5380					
150.000			.3930	.2220	.4060	.7020			.4600		-.1430	-.2690	-.2530	-.1610	-.0690
157.000								.7080							
162.000									.3740						
165.000											-.1740	-.2540	-.2620	-.1620	-.0800
16 .000									.3070						
172.000							.9630								
180.000	1.2850	.8930	.2480	.2310	.3830	.8380			.5760		-.1930	-.3920	-.3060	-.1930	-.1220

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1920							-.0380		-.1230
40.000	.2100	.2790		-.1740	-.1930	-.4620	-.2940			-.2150
70.000		.0440	.0610	.1190	.1440	-.0490	-.1380	-.0620		
90.000		.0660	.1500	.1820	.0960	-.0600	-.1300	-.0700		
105.000				.2190	.0370	-.0620	-.1160	-.0990		
110.000									-.2630	
120.000		.0650	.3120	.4310	-.0520	-.1430	-.0355	-.0710	-.1740	
135.000				.6770	.2900	-.1050	.0540	.0100		
150.000		.0480	.3460	.4360	.2780	.0310	1210	.0090		
165.000		.0520		.4630	.4350	.1440	.1460	-.2180		
180.000		.0040	.2840	.3840						

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2459	.2711	.3200	.3953	.5120
PHI															
.000	1.2890	.8130	.0000	-.4940	-.2280	.2000			.1320		-.0140	-.1100	-.1920	-.2710	.0670
20.000			.1740	-.4330	-.2770	.1920			.1280		-.0130				
40.000			.2350	-.3610	-.1740	.1660			.0820		-.0780	-.1670	-.2370	-.3050	.0070
55.000			.2530	-.3420	.1210	.1990			.1120		-.0720				
70.000			.2520	-.3400	.1680	.1930			.1160		-.0690	-.4350	-.3970	-.1520	-.0330
90.000		.8520	.2340	-.2930	.1750	.1710			.0930		-.0710	-.4940	-.4520	-.1450	-.0680
120.000			.2740	-.0590	.2400	.2990			.0730		-.0470	-.5350	-.3190	-.1630	-.0750

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (R9MB22)

MACH (1) = 1.090 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6460					
150.000			.3290	.1590	.3630	.6310			.3850		-.4500	-.3620	-.2450	-.1740	-.0830
157.000								.5980							
162.000									.2860						
165.000											-.7610	-.3270	-.2060	-.1570	-.0830
169.000									.3040						
172.000							.9460								
180.000	1.2890	.8850	.2740	.2550	.4110	.8550			.5920		-.6800	-.5300	-.2010	-.1590	-.0770

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1890							-.0070		-.1220
40.000	.1600	.1570		-.2790	-.2340	-.3040	-.2680			-.2270
70.000		.0600	.1230	.0920	.0850	-.1120	-.1830	-.1240		
90.000		.0800	.1870	.1320	.0260	-.1240	-.1680	-.1460		
105.000				.1370	-.0400	-.1240	-.1610	-.1710		
110.000									-.3210	
120.000		.0800	.3280	.2650	-.1620	-.2010	-.1240	-.1450	-.2530	
135.000				.7170	.2690	-.2510	-.1030	-.0980		
150.000		.0590	.3680	.5370	.3800	-.0600	-.0690	-.0970		
165.000		.0460		.5090	.4500	.0370	-.0060	-.3140		
180.000		.0220	.3390	.4350						

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2750	.7910	.0000	-.5010	-.2550	.2060			.1120		-.0050	-.1100	-.2080	-.2880	-.0150
20.000			.1100	-.4920	-.3220	.1890			.1060		-.0360				
40.000			.1090	-.4670	-.3150	.1700			.0800		-.0980	-.2070	-.2920	-.3740	.0250
55.000			.0900	-.4890	-.2890	.1610			.0640		.1350				
70.000			.0710	-.4990	-.1260	.1240			.0550		-.2300	-.5030	-.4670	-.1710	-.0620
90.000		.6910	.0700	-.4490	-.0620	.0430			.0110		-.2920	-.5600	-.5110	-.1810	-.0780
120.000			.1350	-.2520	.0530	.1710			-.0820		-.3660	-.6080	-.3580	-.2340	-.1120
142.000										-.7340					
150.000			.2390	.0390	.2520	.5250			.2870		-.6090	-.4640	-.2390	-.2140	-.1100
157.000								.4520							
162.000									.1740						
165.000											-.7960	-.4660	-.1920	-.2190	-.1560
169.000									.2700						
180.000							.8840								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB22)

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2750	.8740	.2610	.2320	.3830	.8280			.5640		-.6720	-.3800	-.2830	-.1960	-.1270
X/LB	.5873	.6626	.7380	.7869	.9283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1940							-.0230		-.1420					
40.000	.1370	-.0290		-.2190	-.2090	-.2190	-.2280			-.2680					
70.000		.1110	.1340	.0730	.0500	-.1670	-.2430	-.2060							
90.000		.1300	.1910	.1030	-.0140	-.1840	-.2450	-.2120							
105.000				.0720	-.1430	-.1980	-.2430	-.2270							
110.000									-.3730						
120.000		.1300	.3020	.1270	-.2830	-.3140	-.2240	-.2280	-.3160						
135.000				.7030	.2020	-.3920	-.3580	-.2540							
150.000		.1010	.3370	.4870	.3930	-.0920	-.1820	-.2520							
165.000		.0370		.4740	.4360	-.0690	-.1220	-.4060							
180.000		.0040	.2970	.3800											

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2340	.7580	.0000	-.4870	-.1680	-.1100			.1160		-.0310	-.1450	-.2470	-.2960	-.3490
20.000			.0390	-.5280	-.2150	.1120			.0920		-.0860				
40.000			-.0200	-.5570	-.4240	.1480			.0710		-.1520	-.2660	-.3820	-.4830	-.3820
55.000			-.0690	-.6070	-.4540	.0880			.0470		-.1860				
70.000			-.1130	-.6240	-.4370	-.0010			.0130		-.2910	-.5720	-.5340	-.2030	-.0550
90.000		.5200	-.1020	-.5700	-.2640	-.0210			-.0710		-.3730	-.6300	-.5370	-.2220	-.0750
120.000			-.0090	-.3850	-.1270	.0370			-.2500		-.5390	-.6690	-.3840	-.3150	-.1550
142.000										-.7980					
150.000			.1350	-.0540	.1110	.3830			.1310		-.7130	-.5410	-.3160	-.2470	-.2270
157.000								.2970							
162.000									.0720						
165.000											-.6290	-.4820	-.4050	-.3870	-.3150
169.000									.2210						
172.000							.7720								
180.000	1.2340	.8390	.2290	.1950	.3170	.7540			.5070		-.6720	-.3830	-.4230	-.3420	-.3210
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1240							.0020		-.1480					
40.000	.0830	-.0500		-.2660	-.2690	-.2730	-.2740			-.3040					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM822)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
75.000		.1210	.1290	.0520	.0430	-.2150	-.2820	-.2600		
90.000		.1140	.1670	.0910	-.0320	-.2230	-.2810	-.2570		
105.000				.0890	-.1860	-.2400	-.2840	-.2800		
110.000									-.3960	
120.000		.1180	.2590	.1290	-.3520	-.3770	-.2980	-.3210	-.3590	
135.000				.5080	.2360	-.4680	-.5110	-.5050		
150.000		-.0880	.1900	.2990	.2310	-.1170	-.2520	-.3420		
165.000		-.0560		.3050	.2630	-.1620	-.2370	-.4100		
180.000		-.2050	.1080	.2190						

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3110	.6950	.0000	-.2780	-.0650	-.2400			-.1860		.1610	.0490	-.0750	-.2030	-.3240
20.000			.4220	-.1420	-.0500	-.2210			-.0790		.0690				
40.000			.6200	.0440	.1380	-.2110			-.1380		-.1010	-.0940	-.0200	-.1120	-.0900
55.000			.7040	.1850	.3020	.1210			.2080		.1660				
70.000			.7210	.2250	.3710	.2490			.2750		.1490	-.1700	-.1430	.0220	.0200
90.000		1.1960	.6830	.2210	.3990	.3480			.3210		.1170	-.2340	-.2080	.0090	.0010
120.000			.6050	.2820	.4420	.5460			.4510		.0620	-.2790	-.1420	-.0300	-.0140
142.000										-.1450					
150.000			.5140	.2860	.4310	.7970			.6110		-.1851	-.1480	-.1540	-.1110	-.1440
157.000								.8580							
162.000									.5300						
165.000											-.3360	-.1270	-.1320	-.1120	-.0380
169.000									.3930						
172.000							1.0060								
180.000	1.3110	.8750	.2940	.2200	.3360	.8390			.6280		-.5570	-.2620	-.3180	-.2770	-.3000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3320							.0170		-.1140
40.000	-.1070	.3800		.0660	.0110	-.2630	-.5540			.0110
75.000		-.0800	-.0330	-.0110	.1830	.0620	-.0170	-.0190		
90.000		-.0570	.0000	.1610	.1070	.0600	-.0460	-.0170		
105.000				.2310	.1090	.0620	-.0690	.0000		
110.000									-.1130	
120.000		-.0640	.0370	.5690	.1170	-.0450	-.0250	.0690	-.0180	
135.000				.5270	.2940	-.1535	.1940	.1911		
.000		-.0760	.1230	.2650	.1500	.1590	.2810	.1917		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB22)

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0540		.3470	.4030	.2950	.3210	-.0290		
180.000		-.2990	-.0680	.1120						

MACH (2) = 1.247 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3520	.8990	.0000	-.2780	-.0830	-.0500			-.0710		.1850	.0410	-.0750	-.1900	-.2820
20.000			.3730	-.1630	-.0520	-.1190			-.0400		.1700				
40.000			.5000	-.0650	.0870	-.1950			-.1010		.0700	-.0110	-.0580	-.1470	-.1720
55.000			.5500	.0030	.2150	.0710			.1050		.0720				
70.000			.5500	.0090	.3500	.1930			.1340		.0340	-.2460	-.1910	-.0470	-.0240
90.000		1.0740	.5140	.0130	.3550	.2820			.1990		-.0570	-.2920	-.2590	-.0480	-.0310
120.000			.4880	.0870	.3850	.4820			.3160		-.1000	-.3670	-.1920	-.0830	-.0350
142.000										-.3670					
150.000			.4610	.1930	.4200	.7740			.5640		-.2520	-.2240	-.1820	-.1260	-.0490
157.000								.8040							
162.000									.4830						
165.000											-.5130	-.2030	-.1910	-.1200	-.0510
169.000									.4130						
172.000							1.0370								
180.000	1.3520	.9420	.3200	.2120	.3830	.9000			.6600		-.5150	-.3390	-.2600	-.1630	-.1020

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1920							-.0010		-.1130
40.000	-.1470	.2870		-.0390	-.1220	-.3000	-.3000			-.0460
70.000		-.1210	-.0210	.0420	.1310	.0090	-.0670	-.0430		
90.000		-.0900	.0260	.1290	.0710	.0100	-.0850	-.0420		
105.000				.1680	.0490	.0100	-.1010	-.0470		
110.000									-.1480	
125.000		-.0580	.1250	.4510	.0480	-.1200	-.0160	.0130	-.0820	
135.000				.6630	.3300	-.1330	.0800	.0880		
150.000		-.0420	.1490	.3330	.2850	.0980	.1480	.0860		
165.000		-.0350		.3920	.4770	.2190	.1960	-.1190		
180.000		-.0730	.0910	.2840						

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB22)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5000
PHI															
.000	1.3690	.9060	.0000	-.3060	-.0780	.0720			-.0210		.1800	.0340	-.0670	-.1520	-.2670
20.000			.3040	-.2570	-.1110	.0630			.0100		.1510				
40.000			.3680	-.1870	-.0400	-.1480			.0280		.1560	-.0340	-.1010	-.1810	-.1170
55.000			.3820	-.1660	-.0040	.0510			-.0060		.1830				
70.000			.3770	-.1710	-.0060	.1600			.0870		.1600	-.3410	-.2740	-.1060	-.0410
90.000		.9360	.3510	-.1430	.0380	.2300			.1300		.1650	-.3510	-.3350	-.0980	-.0490
120.000			.3630	-.0600	.2630	.4040			.1930		.2270	-.4500	-.2500	-.1330	-.0440
142.000										-.4400					
150.000			.3910	.0840	.3720	.7170			.4990		.3240	-.3070	-.2310	-.1340	-.0510
157.000								.7040							
162.000									.4000						
165.000											.2730	-.2650	-.2000	-.1240	-.0520
169.000									.4110						
172.000							1.0430								
180.000	1.3690	.9280	.3240	.1870	.4160	.9220			.6750		.4280	-.3990	-.1680	-.1310	-.0450

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1170							.0190		-.1120
40.000	-.1570	.1820		-.1380	-.1910	-.3470	-.2790			-.1700
70.000		-.12.0	.0170	.0710	.1000	-.0390	-.0980	-.0690		
90.000		-.0940	.0660	.1080	.0500	-.0330	-.1110	-.0770		
105.000				.1130	.0130	-.0390	-.1130	-.0870		
110.000									-.1950	
120.000		-.0600	.1680	.3060	-.0470	-.1880	-.0620	-.0710	-.1410	
135.000				.7480	.3580	-.1490	-.0880	-.0380		
150.000		-.0360	.1200	.4090	.4390	.0430	.0080	-.0380		
165.000		-.0330		.4550	.5330	.1490	.0880	-.2230		
180.000		-.0290	-.0160	.4070						

MACH (2) = 1.250 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5000
PHI															
.000	1.3480	.9190	.0000	-.2570	-.0940	-.1110			-.0830		.0730	.0500	-.0650	-.1650	-.2900
20.000			.2620	-.2770	-.1350	-.0060			-.0790		.0590				
40.000			.2490	-.2640	-.1410	-.0610			-.0440		.0460	-.0680	-.1410	-.2370	-.2550
55.000			.2250	-.2930	-.1770	.0400			.0230		-.0030				
70.000			.2090	-.3060	-.2300	.1340			.0430		-.0440	-.3620	-.3330	-.1450	-.0510
90.000		.7780	.1940	-.2740	-.1730	.1770			.0570		-.0230	-.4190	-.3960	-.1290	-.0560
.000			.2400	-.1610	.0970	.3010			.0610		-.0140	-.4960	-.4090	-.1370	-.0720

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM822)

MACH (2) = 1.250 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5160					
150.000			.3190	.0390	.2600	.6180			.4010		-.4650	-.3650	-.2180	-.1700	-.0540
157.000								.5630							
162.000									.2950						
165.000											-.5930	-.3720	-.1650	-.1850	-.1270
169.000									.3850						
172.000							.9590								
180.000	1.3480	.9220	.3250	.2170	.3810	.8940			.5490		-.4910	-.3610	-.2430	-.1550	-.0930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1070							.0140		-.1170
40.000	.0130	.0240		-.2000	-.2030	-.2580	-.2280			-.2070
70.000		-.1320	.0410	.0700	.0740	-.0750	-.1390	-.1160		
90.000		-.0950	.0830	.0860	.0350	-.0810	-.1540	-.1250		
105.000				.0850	-.0860	-.0930	-.1500	-.1330		
110.000									-.2350	
120.000		-.0910	.1350	.1780	-.1690	-.2940	-.1950	-.1430	-.1980	
135.000				.7000	.2940	-.2490	-.2570	-.2420		
150.000		-.0540	.0700	.2530	.3720	.0390	-.0680	-.1460		
165.000		-.1000		.2830	.4440	.0670	-.0210	-.2900		
180.000		-.0700	.0830	.2920						

MACH (2) = 1.249 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.8770	.0000	-.2550	-.0540	-.2540			-.2190		.1680	.0820	-.0560	-.1580	-.0210
20.000			.1860	-.3230	-.1160	-.2740			-.0990		.1440				
40.000			.1170	-.3610	-.2760	-.0760			-.0690		.0520	-.0960	-.2160	-.3760	-.3150
55.000			.0630	-.4190	-.3370	.0490			-.0060		-.0350				
75.000			.0280	-.4380	-.3780	.1340			.0190		-.2170	-.3960	-.3820	-.3710	-.2700
90.000		.6070	.0290	-.4020	-.3300	.1510			-.0010		-.3510	-.4030	-.4760	-.3450	-.2280
120.000			.1010	-.2670	-.0740	.1950			-.0780		-.3640	-.5290	-.3660	-.2440	-.1050
142.000										-.5770					
150.000			.2180	-.0100	.1380	.4600			.2500		-.5330	-.4240	-.2470	-.0130	.0170
157.000								.4150							
162.000									.2080						
165.000											-.6730	-.4210	-.2710	-.3230	-.0950
169.000									.3420						
172.000							.8400								

AMES 11-707 IA9 OEA + S5 + T9 ORBITER FUSELAGE (RBMB22)

MACH (2) = 1.249 BETAT (5) = 6.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
180.000	1.2990	.8800	.2910	.2050	.3070	.8110			.5960		-.3210	-.2720	-.2940	-.2640	-.2910
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.3320							.0320		-.1150					
40.000	-.0520	-.0280		-.2210	-.2520	-.2660	-.2360			-.2880					
70.000		.0130	.0660	.0640	.1050	-.0940	-.1620	-.1570							
90.000		-.0190	.1060	.1210	.0320	-.1100	-.1680	-.1560							
105.000				.1180	-.1030	-.1310	-.1710	-.1740							
110.000									-.2680						
120.000		-.0810	.1660	.1750	-.2190	-.3110	-.1940	-.2080	-.2490						
135.000				.4570	.3240	-.3070	-.3370	-.3700							
150.000		-.2600	.0560	.2360	.2210	-.0200	-.1380	-.2210							
165.000		-.1090		.2440	.3090	-.0410	-.1180	-.3210							
180.000		-.3050	-.0600	.1150											

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM823) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .030" SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2350	.7970	.0000	-.4770	-.1920	-.1110			.1100		-.0490	-.1430	-.2500	-.3630	-.3730
20.000			.2890	-.3310	-.2030	-.0870			.1310		-.0310				
40.000			.4850	-.1320	-.0140	-.1010			-.1490		-.1030	-.1520	-.1680	-.1980	-.1240
55.000			.5740	.0260	.1710	.2230			.1940		.1290				
70.000			.5950	.0810	.2340	.2940			.2420		.1150	-.3170	-.2400	-.0790	-.0490
90.000		1.1120	.5550	.0910	.2920	.3430			.2710		.0920	-.3970	-.3220	-.0860	-.0770
120.000			.4820	.1810	.3660	.4860			.3710		.0320	-.4400	-.2680	-.1320	-.0970
142.000										-.2610					
150.000			.4010	.1970	.3660	.7180			.4880		-.3100	-.2740	-.2700	-.2090	-.1170
157.000								.7580							
162.000									.3970						
165.000											-.4510	-.2340	-.2560	-.1950	-.0990
169.000									.2500						
172.000							.9220								
180.000	1.2350	.7850	.1600	.1340	.2720	.7630			.5120		-.7690	-.3900	-.4840	-.4230	-.3640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1530							.0060		-.0970
40.000	.2640	.3920		-.0180	.0100	-.4180	-.3160			-.1290
70.000		.0360	-.0930	.0790	.1910	-.0150	-.1210	-.0030		
90.000		.0580	-.0260	.1860	.1400	-.0330	-.1420	-.0460		
105.000				.2660	.1080	-.0410	-.1360	-.0710		
110.000									-.1390	
120.000		.1340	.1940	.5510	.0370	-.1310	-.0060	-.0190	-.1070	
135.000				.5140	.2280	-.1200	.1050	.0680		
150.000		.0280	.2570	.3050	.1070	.1180	1790	.0640		
165.000		.0630		.3700	.3380	.2130	.2180	-.1690		
180.000		-.1330	.1280	.2180						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB23)

MACH (1) = 1.097 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2900	.6170	.0000	-.4770	-.2600	.1710			.1360		.0030	-.1040	-.1980	-.3110	-.0760
20.000			.2450	-.3770	-.2220	.1230			.1380		-.0100				
40.000			.3710	-.2540	.0010	-.0530			.0550		-.0740	-.1440	-.1860	-.2420	-.1530
55.000			.4180	-.1820	.1240	.0250			.1750		.0250				
70.000			.4200	-.1620	.1470	.1270			.1880		-.0170	-.3740	-.3210	-.1270	-.0570
90.000		.9850	.3870	-.1520	.2150	.2130			.1850		-.0620	-.4420	-.3930	-.1350	-.0670
120.000			.3580	.0210	.2970	.3920			.2210		-.1370	-.4880	-.2950	-.1690	-.0580
142.000										-.5480					
150.000			.3540	.1210	.3530	.6820			.4380		-.3920	-.3100	-.2830	-.1880	-.0720
157.000								.6910							
162.000									.3440						
165.000											-.2290	-.2900	-.2900	-.1870	-.0770
169.000									.2710						
172.000							.9440								
180.000	1.2900	.8220	.1800	.1470	.3290	.8160			.5420		-.7350	-.4340	-.3650	-.2120	-.1230

X/LB	.5073	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							-.0270		-.1040
40.000	.2270	.2940		-.1410	-.1270	-.4540	-.2660			-.1820
70.000		.0150	-.0420	.0780	.1320	-.0720	-.1610	-.1030		
90.000		.0430	.0800	.1510	.0710	-.0860	-.1690	-.1090		
105.000				.1960	.0330	-.0870	-.1560	-.1270		
110.000									-.2860	
120.000		.0420	.2600	.3930	-.0550	-.1760	-.0750	-.0820	-.1830	
135.000				.6420	.2640	-.1510	.0190	-.0070		
150.000		.0400	.3110	.4010	.2460	-.0130	.0810	-.0130		
165.000		.0440		.4310	.4080	.0980	.1020	-.2330		
180.000		-.0050	.2490	.3500						

MACH (1) = 1.101 BETAT (3) = 020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.8170	.0000	-.4980	-.2260	.1800			.1470		.0270	-.0920	-.1720	-.2690	.0720
20.000			.1850	-.4290	-.2740	.1800			.1440		.0010				
40.000			.2490	-.3540	-.1850	.1720			.0980		-.0620	-.1500	-.2190	-.2950	.0230
55.000			.2630	-.3330	-.0140	.0230			.1290		-.0520				
70.000			.2560	-.3400	.1450	.0310			.1290		-.1240	-.4340	-.3940	-.1840	-.0660
90.000		.8480	.2260	-.3080	.1790	.1000			.1010		-.1540	-.4920	-.4030	-.1680	-.0730
000			.2420	-.1500	.2210	.2820			.0730		-.2640	-.3450	-.3450	-.1660	-.0640

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB23)

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6580					
150.000			.2740	.0430	.3220	.6130			.3690		-.4840	-.4000	-.2890	-.1880	-.0770
157.000								.5860							
162.000									.2620						
165.000											-.7810	-.3640	-.2470	-.1750	-.0840
169.000									.2690						
172.000							.9280								
180.000	1.2990	.8410	.2090	.1570	.3610	.8320			.5580		-.7060	-.5690	-.2270	-.1770	-.0800

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							-.0030		-.0700
40.000	.1740	.1760		-.2490	-.2100	-.3620	-.2560			-.2080
70.000		.0220	.0610	.0700	.0760	-.1170	-.1990	-.1510		
90.000		.0460	.1220	.1120	.0170	-.1240	-.1950	-.1690		
105.000				.1200	-.0400	-.1250	-.1900	-.1880		
110.000									-.3260	
120.000		.0560	.2930	.2700	-.1600	-.2080	-.1450	-.1600	-.2580	
135.000				.6930	.2550	-.2540	-.1150	-.1070		
150.000		.0460	.3400	.4830	.3480	-.0810	-.0920	-.1210		
165.000		.0430		.4810	.4150	.0220	-.0370	-.3220		
180.000		.0280	.3060	.4060						

MACH (1) = 1.102 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2740	.8140	.0000	-.5000	-.2480	.1880			.1370		.0070	-.0990	-.2020	-.2750	-.0140
20.000			.1250	-.4770	-.3100	.1630			.1240		-.3230				
40.000			.1200	-.4500	-.3040	.1350			.0980		-.2690	-.1980	-.2830	-.2650	.0350
55.000			.0980	-.4740	-.3080	-.0770			.0860		-.1210				
70.000			.0760	-.4890	-.2580	-.0100			.0730		-.2210	-.5090	-.4720	-.2010	-.0680
90.000		.6890	.0600	-.4510	-.0510	.0340			.0130		-.2950	-.5660	-.5210	-.1910	-.0770
120.000			.1030	-.3180	.0330	.1750			-.0870		-.3930	-.6180	-.3970	-.2190	-.0900
142.000										-.7430					
150.000			.1870	-.0540	.2070	.5160			.2710		-.6580	-.5260	-.2570	-.2260	-.1110
157.000								.4480							
162.000									.1550						
165.000											-.8220	-.5150	-.2170	-.2290	-.1480
169.000									.2380						
172.000							.8700								

AMES 11-7D7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB23)

MACH (1) = 1.102 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2740	.8280	.1880	.1410	.3280	.8060			.5330		-.[illegible]	-.4270	-.3340	-.2160	-.1250

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1990							-.0220		-.1040
40.000	.1470	-.0130		-.1930	-.2020	-.2180	-.2110			-.2480
70.000		.0830	.1130	.0540	.0360	-.1780	-.2640	-.2310		
90.000		.0990	.1680	.0890	-.0270	-.1910	-.2620	-.2340		
105.000				.0660	-.1430	-.1900	-.2630	-.2510		
110.000									-.3670	
120.000		.1170	.2890	.1510	-.2670	-.3190	-.2360	-.2400	-.3260	
135.000				.6930	.1970	-.3830	-.3410	-.2560		
150.000		.0960	.3180	.4870	.3660	-.1150	-.2050	-.2600		
165.000		.0420		.4640	.4190	-.0920	-.1420	-.4130		
180.000		-.0040	.2650	.3490						

MACH (1) = 1.098 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2190	.7860	.0000	-.4750	-.2000	-.1270			.1240		-.[illegible]	-.1410	-.2500	-.3030	-.3080
20.000			.0520	-.5240	-.2320	.0520			.1000		-.[illegible]				
40.000			-.0120	-.5530	-.4280	.0950			.0730		-.[illegible]	-.2730	-.3910	-.4850	-.0770
55.000			-.0390	-.6090	-.4780	-.0420			.0470		-.[illegible]				
70.000			-.1140	-.6310	-.4810	-.0280			.0040		-.[illegible]	-.5770	-.5500	-.2400	-.0470
90.000		.5110	-.1140	-.5860	-.4220	-.0150			-.1120		-.[illegible]	-.6330	-.5790	-.2450	-.0680
120.000			-.0420	-.4370	-.1550	.0530			-.2280		-.[illegible]	-.6840	-.4050	-.3290	-.1200
142.000										-.8020					
150.000			.0780	-.1270	.0580	.3770			.1200		-.[illegible]	-.5850	-.3580	-.2740	-.2030
157.000								.2900							
162.000									.0540						
165.000											-.[illegible]	-.5370	-.4260	-.4110	-.3000
169.000									.1940						
172.000							.7560								
180.000	1.2190	.7890	.1530	.1080	.2540	.7310			.4780		-.[illegible]	-.4200	-.4570	-.4130	-.3820

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1410							.0060		-.0960
[illegible].000	.0880	-.0090		-.2440	-.2560	-.2630	-.2600			-.3030

AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB23)

MACH (1) = 1.098 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0980	.0980	.0300	.0280	-.2180	-.2940	-.2820		
90.000		.0990	.1480	.0730	-.0420	-.2320	-.3030	-.2890		
105.000				.0580	-.1940	-.2440	-.3060	-.3080		
110.000									-.3880	
120.000		.1050	.2390	.0980	-.3430	-.3970	-.3070	-.3320	-.3570	
135.000				.5650	.2260	-.4750	-.5000	-.4750		
150.000		-.1130	.1310	.2430	.1870	-.1510	-.2820	-.3650		
165.000		-.0280		.2770	.2740	-.1900	-.2570	-.4110		
180.000		-.1720	.1150	.2160						

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3030	.8530	.0000	-.2660	-.0490	-.2440			-.2500		.1670	.0730	-.0550	-.1910	-.3200
20.000			.4380	-.1230	-.0430	-.2180			-.1810		-.0390				
40.000			.6370	.0690	.1440	-.2110			-.2150		-.0690	-.0830	.0070	-.0990	-.0910
55.000			.7140	.2050	.2950	.1000			.1810		.1730				
70.000			.7310	.2250	.3240	.2190			.2550		.1590	-.1770	-.1350	-.0060	-.0050
90.000		1.1820	.6710	.1930	.3630	.3200			.2940		.0850	-.2370	-.2150	-.0130	-.0270
120.000			.5680	.2170	.4000	.5180			.4440		-.0080	-.2870	-.1640	-.0680	-.0500
142.000										-.1570					
150.000			.4640	.1960	.3780	.7680			.5880		-.2240	-.1990	-.1650	-.1400	-.0730
157.000								.8400							
162.000									.5020						
165.000											-.3650	-.1790	-.1590	-.1320	-.0600
169.000									.3530						
172.000							.9880								
180.000	1.3030	.8300	.2480	.1430	.2780	.8100			.5940		-.5790	-.3080	-.3450	-.3220	-.3360

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1430							.0320		-.1060
40.000	-.1070	.4330		.0900	.0420	-.2490	-.5430			.0290
70.000		-.0910	-.0690	-.0760	.1520	.0370	-.0420	-.0460		
90.000		-.0770	-.0390	.1410	.0720	.0410	-.0710	-.0710		
105.000				.2220	.0990	.0400	-.1000	-.0710		
110.000									-.1310	
120.000		-.0960	-.0180	.5760	.1310	-.0690	-.0730	.0510	-.0380	
135.000				.4690	.2620	-.1850	.1440	.1540		
150.000		-.1060	.1020	.2220	.1280	.0940	.2430	.1650		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (R8NB23)

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
165.000		-.0780		.3110	.3920	.2440	.2820	-.0490		
180.000		-.3020	-.0580	.1260						

MACH (2) = 1.249 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3480	.9410	.0000	-.2690	-.0750	-.2090			-.1290		.2100	.0600	-.0470	-.1670	-.2740
20.000			.3920	-.1740	-.0480	-.2380			-.1120		.1390				
40.000			.5190	-.0530	.0770	-.2650			-.1310		-.0660	.0070	-.0260	-.1270	-.1630
55.000			.5650	.0110	.1210	-.0080			.0140		.0870				
70.000			.5570	.0170	.1480	.1120			.1270		-.0480	-.2520	-.1880	-.0610	-.0450
90.000		1.0640	.5060	.0070	.3340	.2110			.2010		-.0750	-.2980	-.2900	-.0610	-.0530
120.000			.4570	.0340	.3180	.4230			.3260		-.1320	-.3650	-.2180	-.1030	-.0550
142.000										-.3700					
150.000			.4180	.1000	.3270	.7210			.5470		-.2780	-.2670	-.2240	-.1570	-.0680
157.000								.7580							
162.000									.4580						
165.000											-.5270	-.2340	-.2250	-.1460	-.0690
169.000									.3610						
172.000							.9980								
180.000	1.3480	.8700	.2710	.1070	.2840	.8480			.6320		-.5330	-.3710	-.2900	-.1870	-.1210

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	-.0720							.0010		-.0950
40.000	-.1240	.3140		-.0100	-.0990	-.2900	-.3020			-.0290
70.000		-.1240	-.0670	-.0070	.1110	-.0120	-.0840	-.0770		
90.000		-.0950	-.0110	.1040	.0500	-.0100	-.1070	-.0910		
105.000				.1610	.0490	-.0090	-.1260	-.0890		
110.000									-.1610	
120.000		-.0770	.0900	.4100	.0490	-.1330	-.0560	-.0160	-.0930	
135.000				.6140	.3070	-.1580	.0500	.0670		
150.000		-.0570	.1480	.3030	.2550	.0580	.1200	.0630		
165.000		-.0500		.3620	.4430	.1830	.1650	-.1370		
180.000		-.1010	.1020	.2600						

AMES 11-7OT IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB23)

MACH (2) = 1.248 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3640	.9320	.0000	-.3430	-.1490	.0550			-.0670		.1670	.0600	-.0460	-.1380	-.2580
20.000			.2940	-.3080	-.1720	.0460			-.0570		.0620				
40.000			.3680	-.2130	-.0920	-.1300			-.0350		-.0360	-.0350	-.0790	-.1690	-.2020
55.000			.3840	-.1790	-.0480	.0490			.0300		.0200				
70.000			.3750	-.1820	-.0540	.1510			.0800		-.1060	-.3220	-.3000	-.1280	-.0630
90.000		.9240	.3370	-.1600	-.0320	.2380			.1340		-.1820	-.3960	-.3570	-.1140	-.0630
120.000			.3310	-.0890	.2260	.4050			.2040		-.2210	-.4650	-.3100	-.1610	-.0620
142.000										-.4490					
150.000			.3460	-.0030	.3000	.7340			.4810		-.3460	-.3360	-.2680	-.1630	-.0640
157.000								.6910							
162.000									.3780						
165.000											-.5910	-.2980	-.2370	-.1640	-.0640
169.000									.3780						
172.000							1.0040								
180.000	1.3640	.8820	.2730	.0980	.3330	.9090			.6410		-.5220	-.4280	-.1990	-.1760	-.0560

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0040							.0200		-.1110
40.000	-.0790	.2010		-.1190	-.1600	-.3420	-.2660			-.1580
70.000		-.1160	-.0260	.0190	.0780	-.0590	-.1260	-.1060		
90.000		-.0870	.0330	.0810	.0190	-.0510	-.1390	-.1060		
105.000				.0990	.0030	-.0510	-.1430	-.1180		
110.000									-.2100	
120.000		-.0610	.1610	.2920	-.0410	-.2040	-.0870	-.0950	-.1580	
135.000				.7000	.3240	-.1610	-.0970	-.0530		
150.000		-.0470	.1570	.3850	.4060	.0200	-.0140	-.0600		
165.000		-.0450		.4250	.4730	.1250	.0570	-.2340		
180.000		-.0420	.0010	.3870						

MACH (2) = 1.247 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3400	.9160	.0000	-.2700	-.1020	-.1380			-.1280		.2070	.0680	-.0580	-.1550	-.2870
20.000			.2710	-.2840	-.1190	-.0500			-.1120		.1690				
40.000			.2590	-.2670	-.1510	-.0870			-.0800		.0470	-.0770	-.1510	-.2260	-.2590
55.000			.2340	-.2950	-.1770	.0250			.0060		-.0630				
70.000			.2100	-.3140	-.2160	.1190			.0360		-.1890	-.3880	-.3540	-.1710	-.0690
90.000		.7750	.1850	-.2990	-.1820	.1720			.0610		-.2570	-.4630	-.4120	-.1450	-.0730
120.000			.2070	-.1940	.0700	.3010			.0680		-.3090	-.5170	-.3800	-.2070	-.0770

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB23)

MACH (2) = 1.247 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5250					
150.000			.2720	-.0440	.2200	.6050			.3810		-.4850	-.3980	-.2480	-.2160	-.0840
157.000								.5530							
162.000									.2750						
165.000											-.6230	-.4020	-.1980	-.2190	-.1310
169.000									.3530						
172.000							.9380								
180.000	1.3400	.8750	.2680	.1150	.3290	.8660			.6130		-.5220	-.3930	-.2780	-.1850	-.1170

X/LB	.5873	.6626	.7360	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0040							.0100		-.1090
40.000	.0560	.0350		-.1850	-.1860	-.2650	-.2160			-.2040
70.000		-.0940	.0070	.0460	.0500	-.0960	-.1590	-.1360		
90.000		-.0780	.0620	.0700	.0190	-.0940	-.1800	-.1500		
105.000				.0580	-.0810	-.1170	-.1760	-.1630		
110.000									-.2270	
120.000		-.0660	.1510	.2130	-.1520	-.3030	-.1550	-.1610	-.1770	
135.000				.7240	.2740	-.2560	-.2560	-.2260		
150.000		-.0800	.0610	.3190	.4000	.0020	-.0980	-.1590		
165.000		-.1040		.3620	.4660	.0440	-.0450	-.3000		
180.000		-.0950	.0830	.2720						

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2900	.8810	.0000	-.2510	-.0670	-.2660			-.2710		-.1710	.0820	-.0530	-.1540	-.3270
20.000			.2010	-.3220	-.1260	-.2880			-.2010		-.1360				
40.000			.1280	-.3600	-.2760	-.1300			-.1090		-.0480	-.1050	-.2250	-.3510	-.2590
55.000			.0700	-.4190	-.3340	.0270			-.0280		-.0800				
70.000			.0260	-.4420	-.3760	.1130			.0100		-.2470	-.4280	-.4070	-.1990	-.0750
90.000		.6020	.0180	-.4140	-.3350	.1450			.0000		-.3170	-.5270	-.4430	-.1790	-.0840
120.000			.0730	-.2930	-.0800	.1490			-.0680		-.3510	-.5570	-.3980	-.2550	-.1150
142.000										-.5930					
150.000			.1740	-.0740	.1030	.4550			.2360		-.1720	-.4620	-.2750	-.2410	-.2110
157.000								.4040							
162.000									.1860						
165.000											-.6350	-.4650	-.2930	-.3390	-.2890
169.000									.3110						
172.000							.8210								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB23)

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2900	.8350	.2320	.1340	.2510	.7840			.5610		-.5470	-.3260	-.3200	-.3170	-.3380
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.0520							.0360		-.0960					
40.000	-.0170	-.0320		-.2100	-.2460	-.2520	-.2240			-.2820					
70.000		.0100	.0280	.0480	.0780	-.1040	-.1740	-.1780							
90.000		-.0010	.0760	.0920	.0090	-.1160	-.1890	-.1780							
105.000				.0730	-.1160	-.1580	-.1880	-.1920							
110.000									-.2820						
120.000		-.0160	.1300	.1540	-.2250	-.3500	-.2090	-.2180	-.2570						
135.000				.5830	.3050	-.3060	-.3330	-.3590							
150.000		-.2260	-.0130	.1800	.2010	-.0560	-.1720	-.2410							
165.000		-.1530		.2360	.3270	-.0630	-.1400	-.3370							
180.000		-.3090	-.0480	.1350											

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBMB24) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1581	.1732	.1958	.2299	.2711	.3200	.3959	.5120
PHI															
.000	1.2400	.7970	.0000	-.4650	-.2100	-.2670			.1100		-.0220	-.1240	-.2360	-.3380	-.3670
20.000			.3060	-.3210	-.2140	-.0810			.0160		-.0130				
40.000			.5040	-.1210	-.0210	-.0900			-.1230		-.0690	-.1270	-.1480	-.1820	-.1230
55.000			.5840	.0240	.1530	.2150			.2070		.1320				
70.000			.5910	.0530	.1980	.2730			.2500		.1130	-.3070	-.2340	-.0950	-.0680
90.000		1.0980	.5300	.0330	.2580	.3200			.2770		.0633	-.3910	-.3100	-.1080	-.1050
120.000			.4330	.0970	.3110	.4660			.3750		-.0240	-.4480	-.3050	-.1610	-.1373
142.000										-.2730					
150.000			.3280	.0650	.2990	.6930			.4650		-.3430	-.2990	-.3070	-.2320	-.1500
157.000								.7370							
162.000									.3710						
165.000											-.4660	-.2950	-.2890	-.2200	-.1220
169.000									.2100						
172.000							.9090								
180.000	1.2400	.7810	.0980	.0290	.2070	.7420			.4820		-.7850	-.4180	-.5070	-.5130	-.3980

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1680							.0140		-.1040
40.000	.2810	.4110		.1350	.0153	-.4150	-.3160			-.1140
70.000		-.0020	-.1170	.0590	.1770	-.0350	-.1380	-.1080		
90.000		.0320	-.0610	.1770	.1190	-.0500	-.1660	-.1110		
105.000				.2520	.0690	-.0520	-.1620	-.1190		
110.000									-.2330	
120.000		.0440	.1530	.5420	.0300	-.1530	-.0620	-.0490	-.1470	
135.000				.4740	.1970	-.2350	.0600	.0390		
150.000		.0390	.2290	.2740	.0750	.0570	.1410	.0350		
165.000		.0740		.3360	.3160	.1510	.1750	-.1920		
180.000		-.0590	.1260	.2260						

AMES 1-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB24)

MACH (1) = 1.098 BETAT ( ) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2780	.8250	.0000	-.4860	-.2600	-.1720			.1600		.0250	-.0770	-.1750	-.2760	-.1370
20.000			.2560	-.3690	-.2300	-.2490			.1650		.0150				
40.000			.3830	-.2400	-.0670	-.3510			.0860		-.0470	-.1160	-.1550	-.2040	-.1550
55.000			.4300	-.1720	.1250	-.0870			.1961		.0470				
70.000			.4200	-.1640	.1480	.0530			.1920		-.0020	-.3650	-.3070	-.1410	-.0830
90.000		.9730	.3740	-.1710	.2020	.1510			.1780		-.0520	-.4350	-.3830	-.1470	-.1030
120.000			.3150	-.0930	.2600	.3630			.2080		-.1530	-.4940	-.3280	-.1850	-.0890
142.000										-.5620					
150.000			.2720	-.0140	.2990	.6570			.4140		-.4270	-.3380	-.3130	-.2170	-.0870
157.000								.6710							
162.000									.3150						
165.000											-.7290	-.3140	-.3190	-.2130	-.0800
169.000									.2300						
172.000							.9250								
180.000	1.2780	.7980	.1170	.0290	.2670	.7900			.5100		-.7530	-.4720	-.3970	-.2340	-.1240

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2050							-.0260		-.0950
40.000	.2330	.3080		-.1080	-.0610	-.4470	-.2430			-.1370
70.000		-.0080	-.1200	.0320	.1130	-.0880	-.1840	-.1570		
90.000		.0190	.0010	.1190	.0370	-.1020	-.2120	-.1570		
105.000				.1670	-.0040	-.1030	-.2070	-.1670		
110.000									-.3050	
120.000		.0210	.2260	.4130	-.0630	-.1960	-.1220	-.1140	-.2090	
135.000				.5770	.2370	-.1970	-.0240	-.0320		
150.000		.0280	.2720	.3670	.2140	-.0480	.0410	-.0530		
165.000		.0400		.3880	.3540	.0590	.0540	-.2650		
180.000		.0080	.2140	.3210						

MACH (1) = 1.098 BETAT (3) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.8300	.0000	-.5430	-.2450	-.0790			.1490		.0390	-.0740	-.1440	-.2340	-.0670
20.000			.1580	-.4740	-.3090	-.0920			.1470		.0120				
40.000			.2380	-.3800	-.2180	-.1140			.1090		-.0480	-.1310	-.1970	.2690	.0240
55.000			.2610	-.3460	-.1570	-.0900			.1430		-.0330				
70.000			.2510	-.3510	-.1180	.0150			.1340		-.1100	-.4390	-.3920	-.2130	-.0900
90.000		.8440	.2110	-.3290	.2030	.0890			.1010		-.1670	-.4970	-.4610	-.1880	-.0880
120.000			.1970	-.2470	.1880	.2730			.0620		-.2360	-.5600	-.3850	-.1710	-.0580

AMES 11-707 IA9 OA + 33 + T9 ORBITER FUSELAGE (RBNB24)

MACH (1) = 1.098 BETAT (3) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6740					
150.000			.2140	-.0880	.2740	.5950			.3450		-.5240	-.4450	-.3280	-.1940	-.0890
157.000								.5700							
162.000									.2340						
165.000											-.8120	-.4120	-.2890	-.1920	-.0740
169.000									.2300						
172.000							.9110								
180.000	1.2990	.7850	.1410	.0210	.3090	.8100			.5220		-.7410	-.6170	-.2530	-.1980	-.0730

X/LB	.5875	.6826	.7360	.7868	.8283	.8648	.9262	.9659	1.0015	1.0092
PHI										
.000	.2010							-.0090		-.0750
40.000	.1780	.1790		-.2050	-.1670	-.3710	-.2210			-.1880
70.000		-.0150	-.0280	.0220	.0530	-.1410	-.2280	-.1850		
90.000		.0180	.0690	.0830	-.0060	-.1410	-.2270	-.1890		
105.000				.0890	-.0570	-.1410	-.2210	-.2080		
110.000									-.3340	
120.000		.0360	.2580	.2680	-.1620	-.2360	-.1770	-.1720	-.2660	
135.000				.6590	.2380	-.2660	-.1420	-.1270		
150.000		.0400	.3010	.4240	.3180	-.1100	-.1180	-.1490		
165.000		.0360		.4390	.3810	-.0100	-.0710	-.3370		
180.000		.0280	.2740	.3730						

MACH (1) = 1.097 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5 70
PHI															
.000	1.2660	.8180	.0000	-.4880	-.2420	-.1590			.1580		.0270	-.0830	-.1870	-.2390	-.1150
20.000			.1340	-.4780	-.3080	-.1390			.1480		-.0070				
40.000			.1310	-.4490	-.3050	-.1270			.1230		-.0670	-.1800	-.2630	-.3410	.0380
55.000			.1080	-.4750	-.3200	-.1220			.1050		-.1010				
70.000			.0750	-.4940	-.3490	- 0250			.0490		-.2000	-.3060	-.4680	-.2320	-.0860
90.000		.6850	.0500	-.4650	-.3000	.0300			-.0830		-.2810	-.5680	-.5210	-.1990	-.0920
120.000			.0680	-.3650	.0080	.1740			-.0770		-.4920	-.6280	-.4310	-.2050	-.0900
142.000										-.7500					
150.000			.1330	-.1520	.1600	.5020			.2500		-.6780	-.5730	-.2930	-.2330	-.1090
157.000								.4330							
162.000									.1340						
165.000											-.8470	-.5510	-.2730	-.2310	.1330
169.000									.2070						
172.000							.8500								

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBM024)

MACH (1) = 1.097 BETAT (4) = 4.130.

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2660	.7800	.1320	.0490	.2670	.7820			.4980		-.7360	-.4640	-.3790	-.2370	-.1340
X/LB	.5873	.6626	.7380	.7869	.8263	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2070							-.0140		-.0681					
40.000	.1540	-.0100		-.1510	-.1910	-.2140	-.1970			-.2270					
70.000		.0490	.0530	.0280	.0220	-.1890	-.2800	-.2580							
90.000		.0750	.1220	.0660	-.0410	-.1900	-.2810	-.2660							
105.000				.0630	-.1270	-.2150	-.2810	-.2810							
113.000									-.3790						
120.000		.0980	.2600	.1490	-.2600	-.3240	-.2460	-.2600	-.3390						
135.000				.6860	.1830	-.3850	-.3300	-.2590							
150.000		.1070	.2890	.4860	.3210	-.1460	-.2410	-.2760							
165.000		.0620		.4510	.4000	-.1170	-.1660	-.4100							
180.000		-.0040	.2060	.3100											

MACH (1) = 1.101 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2130	.7980	.0000	-.4690	-.2070	-.1740			.1220		-.2100	-.1250	-.2380	-.2630	-.3200
20.000			.0650	-.5150	-.2330	-.1510			.1120		-.2590				
40.000			-.0010	-.5430	-.4230	-.1200			.0950		-.1297	-.2630	-.3840	-.4610	-.0630
55.000			-.0610	-.6000	-.4790	-.1100			.0460		-.1530				
70.000			-.1140	-.6260	-.5100	-.0380			-.0310		-.2610	-.5690	-.5480	-.2570	.0110
90.000		.5080	-.1220	-.5960	-.4850	-.0110			-.1420		-.3710	-.6270	-.5830	-.2400	-.0390
120.000			-.0690	-.4680	-.1790	.0640			-.2100		-.5690	-.7060	-.4210	-.3060	-.1070
142.000										-.8090					
150.000			.0300	-.2030	.0110	.3710			.1090		-.7580	-.6150	-.4010	-.3050	-.2040
157.000								.2830							
162.000									.0380						
165.000											-.3547	-.5730	-.4480	-.4240	-.2640
169.000									.1680						
172.000							.7370								
180.000	1.2130	.7420	.0820	.0250	.1900	.7080			.4490		-.7130	-.4520	-.4830	-.5060	-.4140
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0792					
PHI															
.000	.1570							.0080		-.0882					

AMES 11-707 IA9 CEA + SS + T9 ORBITER FUSELAGE (RBNB24)

MACH (1) = 1.101 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0490	.0580	.0200	.0090	-.2240	-.3140	-.3070		
90.000		.0830	.1220	.0650	-.0610	-.2420	-.3240	-.3150		
105.000				.0430	-.1920	-.2600	-.3240	-.3260		
110.000									-.3940	
120.000		.0620	.2200	.0850	-.3330	-.4080	-.3110	-.3370	-.3790	
135.000				.7090	.2250	-.4420	-.4600	-.4080		
150.000		-.0420	.1480	.2220	.0950	-.2160	-.3470	-.3760		
165.000		-.0680		.3230	.3300	-.2010	-.2670	-.4460		
180.000		-.1100	.1190	.2150						

MACH (2) = 1.246 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3993	.5120
PHI															
.000	1.2920	.9170	.0000	-.2530	-.0450	-.2510			-.2820		.0240	.0690	-.0370	-.1820	-.3200
20.000			.4560	-.1150	-.0440	-.2430			-.2250		-.0120				
40.000			.6560	.0800	.1430	-.2200			-.2290		-.0690	-.0780	.0090	-.0840	-.0650
55.000			.7330	.2100	.2830	.0660			.1190		.1940				
70.000			.7290	.2230	.3020	.1770			.1850		.1700	-.1870	-.1480	-.0180	-.0310
90.000		1.1710	.6540	.1670	.3400	.2840			.2680		.0270	-.2450	-.2130	-.0320	-.0540
120.000			.5270	.1450	.3670	.4870			.4350		-.0370	-.2970	-.2210	-.0980	-.0850
142.000										-.1700					
150.000			.4140	.1110	.3330	.7410			.5610		-.2600	-.2470	-.2170	-.1590	-.1030
157.000								.8190							
162.000									.4740						
165.000											-.3920	-.2100	-.1880	-.1520	-.0870
169.000									.3160						
172.000							.9690								
180.000	1.2920	.7870	.1940	.0680	.2340	.7840			.5650		-.6040	-.3460	-.3710	-.3700	-.3690

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0810							.0430		-.0690
40.000	-.0850	.4673		.1150	.0850	-.2370	-.5140			.0330
70.000		-.0990	-.1100	-.1390	.1250	.0070	-.0650	-.0660		
90.000		-.0900	-.0650	.1190	.0370	.0210	-.0970	-.1070		
105.000				.2110	.0870	.0210	-.1250	-.1250		
110.000									-.1540	
120.000		-.1150	-.0600	.5840	.1250	-.0990	-.0990	.0050	-.0600	
135.000				.4240	.2320	-.2180	.0870	.1200		
150		-.1180	.0940	.2050	.0970	.0470	.1980	.134		

DA SE TED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB24)

W 2 1 BETAT (1) = -8.150

RBITE DEPENDENT VARIABLE CP

X	5873	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
			.2860	.3590	.1970	.2420	-.0740		
		.0220	.1590						

= BETAT (2) = -4.070

(1)ORB SELAGE DEPENDENT VARIABLE CP

X	.000	75	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
	1.7	.5410	.0000	-.2890	-.0860	-.1580			-.1620		.0650	.1060	-.0190	-.1490	-.2550
			.4010	-.1760	-.0540	-.1880			-.1750		.0970				
			.5270	-.0470	.0700	-.2010			-.2150		-.0270	-.0320	-.0010	-.1120	-.1560
			.5680	.0180	.1560	.0250			-.0020		-.0250				
			.5560	.0170	.1640	.1360			.1130		-.0610	-.2470	-.2060	-.0820	-.0700
		1.0500	.4900	-.0070	.2350	.2380			.1940		-.0860	-.3590	-.2910	-.0770	-.0770
			.4200	.0000	.3560	.4440			.3220		-.1550	-.4030	-.2720	-.1310	-.0800
										-.3780					
			.3690	.0160	.3400	.7270			.5220		-.3080	-.3120	-.2630	-.1830	-.0930
								.7700							
									.4290						
											-.5470	-.2660	-.2620	-.1690	-.0930
									.3420						
							.9950								
	1.3340	.8210	.2210	.0350	.3090	.8430			.5940		-.5560	-.4050	-.3230	-.2210	-.1400

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.00	.0280							.0080		-.1010
40.00	.0090	.3480		.0180	-.0150	-.2770	-.2800			-.0230
70.00		-.1350	-.0980	-.0690	.0850	-.0350	-.1060	-.1110		
90.000		-.1030	-.0490	.0800	.0090	-.0250	-.1360	-.1300		
105.000				.1400	.0320	-.0270	-.1560	-.1290		
110.000									-.1880	
120.000		-.0850	.0740	.4140	.0350	-.1570	-.0940	-.0550	-.1090	
135.000				.5260	.2820	-.1760	.0150	.0360		
150.000		-.0650	.1330	.2830	.2320	.0140	.0840	.0280		
165.000		-.0550		.3290	.3920	.1410	.1220	-.1640		
180.000		-.1220	.0280	.2680						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB24)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4110	.9680	.0000	-.4100	-.2320	.0090			-.1090		-.1320	.0930	-.0160	-.1030	-.2320
20.000			.2650	-.3530	-.2410	-.0120			-.1040		-.0890				
40.000			.3650	-.2440	-.1520	-.0110			-.1100		-.0570	-.0440	-.0430	-.1460	-.1870
55.000			.3970	-.1920	-.0880	.0510			.0200		-.0960				
70.000			.3850	-.1920	-.1030	.1410			.1030		-.1130	-.3630	-.3220	-.1430	-.0780
90.000		.9460	.3270	-.1800	-.0610	.2180			.1460		-.1850	-.4200	-.3580	-.1290	-.0800
120.000			.2860	-.1210	.1080	.3880			.2120		-.2320	-.4740	-.3530	-.1750	-.0770
142.000										-.4540					
150.000			.2930	-.0720	.2150	.6810			.4590		-.3660	-.3690	-.2950	-.2030	-.0740
157.000								.6770							
162.000									.3540						
165.000											-.6090	-.3280	-.2680	-.2050	-.0750
169.000									.3440						
172.000							.9810								
180.000	1.4110	.8200	.2150	.0320	.2400	.8700			.6030		-.5460	-.4550	-.2240	-.2100	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0950							.0120		-.0790
40.000	-.0190	.2280		-.1000	-.1220	-.3410	-.2590			-.1250
70.000		-.1300	-.0660	-.0220	.0490	-.0770	-.1500	-.1430		
90.000		-.0940	.0069	.0590	-.0110	-.0710	-.1640	-.1450		
105.000				.0810	-.0130	-.0790	-.1720	-.1520		
110.000									-.2240	
120.000		-.0840	.1450	.2850	-.0430	-.2170	-.1100	-.1180	-.1770	
135.000				.6250	.3020	-.1760	-.1060	-.0720		
150.000		-.0480	.1700	.3550	.3680	-.0080	-.0400	-.0850		
165.000		-.0470		.3850	.4190	.1020	.0260	-.2510		
180.000		-.0430	.0360	.3490						

MACH (2) = 1.249 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3350	.9340	.0000	-.2860	-.0850	-.1200			-.1690		.0970	.0990	-.0260	-.1250	-.2660
20.000			.2700	-.3000	-.1340	-.0620			-.1460		.0480				
40.000			.2720	-.2740	-.1620	-.0650			-.1000		-.0860	-.0550	-.1070	-.2030	-.2440
55.000			.2480	-.2880	-.1920	.0140			.0020		-.1320				
70.000			.2160	-.3100	-.2250	.1100			.0450		-.2010	-.4340	-.3600	-.1940	-.0780
90.000		.7720	.1810	-.2930	-.1970	.1740			.0710		-.2510	-.4780	-.4420	-.1630	-.0760
120.000			.1620	-.2110	-.0190	.3060			.0850		-.3140	-.5250	-.4160	-.2170	-.0770

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB24)

MACH (2) = 1.249 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5280					
150.000			.2320	-.0990	.1600	.5950			.3640		-.4950	-.4230	-.2770	-.2510	-.0700
157.000								.5460							
162.000									.2590						
165.000											-.6360	-.4220	-.2310	-.2440	-.1300
169.000									.3260						
172.000							.9240								
180.000	1.3350	.8300	.2180	.0440	.2620	.8420			.5820		-.5410	-.4120	-.3130	-.2200	-.1400

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0420							.0170		-.0700
40.000	.0820	.0310		-.1590	-.1610	-.2620	-.2050			-.1880
70.000		-.0870	-.0400	.0060	.0300	-.1160	-.1800	-.1780		
90.000		-.2740	.0280	.0510	-.0150	-.1150	-.1980	-.1790		
105.000				.0380	-.0720	-.1160	-.1580	-.1880		
110.000									-.2510	
120.000		-.0750	.1290	.1990	-.1420	-.3160	-.1740	-.1810	-.2060	
135.000				.7450	.2650	-.2610	-.2530	-.2290		
150.000		-.0560	.0390	.3380	.3840	-.0260	-.1310	-.1820		
165.000		-.0930		.4440	.4610	.0250	-.0610	-.3050		
180.000		-.1240	.0390	.2600						

MACH (2) = 1.248 BETAT (5) = 0.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2800	.9030	.0000	-.2530	-.0620	-.2660			-.2920		-.5570	.0790	-.0310	-.1380	-.3280
20.000			.2140	-.3190	-.1030	-.2860			-.2430		-.1300				
40.000			.1430	-.3550	-.2720	-.1570			-.1360		-.3410	-.0970	-.2300	-.3240	-.2410
55.000			.0830	-.4110	-.3340	-.0040			-.0370		-.1840				
70.000			.0320	-.4380	-.3730	.0930			.0110		-.2510	-.4730	-.4120	-.2350	-.0730
90.000		.6000	.0120	-.4200	-.3370	.1460			.0120		-.3120	-.5370	-.4710	-.2070	-.0810
120.000			.0490	-.3110	-.1020	.2100			-.0500		-.3350	-.5670	-.4320	-.2720	-.1040
142.000										-.5970					
150.000			.1350	-.1360	.0660	.4500			.2240		-.5870	-.4820	-.3020	-.2680	-.2170
157.000								.3980							
162.000									.1700						
165.000											-.6450	-.4920	-.3140	-.3540	-.2670
169.000									.2860						
172.000							.8040								

AMES 11-707 IAD OPA + S3 + T9 ORBITER FUSELAGE (RBMB24)

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1881	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2800	.7900	.1790	.0610	.2060	.7550			.5310		-.5730	-.3590	-.3460	-.3750	-.3750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0480							.0410		-.1050
40.000	.0190	-.0280		-.2030	-.2240	-.2220	-.2090			-.2730
70.000		.0010	-.0190	.0210	.0600	-.1110	-.1870	-.2060		
90.000		.0030	.0540	.0770	-.0100	-.1180	-.2060	-.2000		
105.000				.0670	-.1120	-.1650	-.2060	-.2150		
110.000									-.2690	
120.000		.0080	.1200	.1450	-.2140	-.3730	-.2170	-.2230	-.2670	
135.000				.7260	.2960	-.3210	-.3330	-.3560		
150.000		-.1750	-.0270	.1610	.1870	-.0570	-.1760	-.2420		
165.000		-.1450		.3130	.3700	-.0580	-.1410	-.3590		
180.000		-.2990	.0050	.1560						

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB25) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.098 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0100	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2250	.8150	.0000	-.4660	-.2220	-.4110			.0970		-.0010	-.1100	-.2300	-.3180	-.3500
20.000			.3180	-.3160	-.2220	-.3250			-.0330		.0080				
40.000			.5150	-.1110	-.0280	-.1910			-.0940		-.0630	-.1080	-.1290	-.1510	-.1030
55.000			.5960	.0240	.1370	.1820			.2270		.1510				
70.000			.5920	.0450	.1700	.2420			.2600		.1220	-.3170	-.2300	-.0970	-.0840
90.000		.0900	.5210	-.0020	.2250	.2980			.2870		.0780	-.4060	-.2970	-.1220	-.1290
120.000			.3940	-.0040	.2550	.4440			.3820		-.0560	-.4730	-.3470	-.1880	-.1770
142.000										-.2850					
150.000			.2720	-.0360	.2340	.6710			.4470		-.3660	-.3470	-.3450	-.2480	-.1790
157.000								.7220							
162.000									.3450						
165.000											-.5060	-.2910	-.3180	-.2180	-.1490
169.000									.1720						
172.000							.8830								
180.000	1.2250	.7210	.0450	-.0790	.1460	.7160			.4500		-.8360	-.4690	-.5290	-.5800	-.3950

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1790							.0310		-.0960
40.000	.2960	.4340		.1590	.0390	-.3990	-.2890			-.1180
70.000		-.0250	-.1520	-.0240	.1540	-.0520	-.1470	-.1560		
90.000		.0090	-.1020	.1330	.0890	-.0640	-.1860	-.1840		
105.000				.2230	.0470	-.0720	-.2090	-.1620		
110.000									-.2660	
120.000		.0060	.0460	.5450	.0270	-.1660	-.1480	-.0760	-.1640	
135.000				.4200	.1620	-.2750	.0200	.0140		
150.000		.0500	.1890	.2320	.0470	-.0060	.1070	.0120		
165.000		.0700		.3050	.3010	.0890	.1410	-.2090		
180.000		-.0370	.0730	.2090						

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB25)

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.8440	.0000	-.5090	-.2880	-.1830			.1680		.0550	-.0500	-.1480	-.2550	-.2000
20.000			.2650	-.3820	-.2570	-.2910			.1760		.0480				
40.000			.3960	-.2400	-.1110	-.3760			.1180		-.0130	-.0810	-.1300	-.1800	-.1560
55.000			.4390	-.1650	.0380	-.1010			.2250		.0810				
70.000			.4240	-.1650	.1140	.0280			.2140		.0290	-.3590	-.2900	-.1730	-.1200
90.000		.9720	.3600	-.1850	.2160	.1320			.1990		-.0310	-.4340	-.3610	-.1650	-.1340
120.000			.2870	-.1750	.2390	.3450			.2270		-.1680	-.5020	-.3630	-.2050	-.1160
142.000										-.5560					
150.000			.2250	-.1170	.2590	.6360			.3950		-.4530	-.3700	-.3360	-.2300	-.1050
157.000								.6810							
162.000									.2960						
165.000											-.7460	-.3380	-.3350	-.2070	-.0970
169.000									.1980						
172.000							.9110								
180.000	1.2880	.7530	.0670	-.1040	.2210	.7690			.4790		-.7790	-.5070	-.4280	-.2360	-.1710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2080							-.0110		-.0960
40.000	.2420	.3230		-.0330	-.0160	-.4360	-.2300			-.1040
70.000		-.0270	-.1760	-.0110	.0960	-.1060	-.2010	-.2000		
90.000		.0060	-.0760	.0600	.0060	-.1190	-.2350	-.1810		
105.000				.1440	-.0300	-.1210	-.2440	-.1950		
110.000									-.3110	
120.000		.0080	.1690	.4110	-.0670	-.2130	-.1590	-.1340	-.2200	
135.000				.5420	.2030	-.2500	-.0500	-.0480		
150.000		.0480	.2330	.3070	.1690	-.0890	.0160	-.0720		
165.000		.0490		.3400	.3300	.0190	.0140	-.2760		
180.000		.0050	.1960	.3000						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3180	.8080	.0000	-.5920	-.2600	-.1490			.1580		.0490	-.0580	-.1170	-.2200	.0540
20.000			.1120	-.5280	-.3460	-.1630			.1560		.0230				
40.000			.2200	-.4150	-.2510	-.1740			.1320		-.0350	-.1120	-.1760	-.2540	.0160
55.000			.2590	-.3610	-.1980	-.0550			.1720		-.0170				
70.000			.2500	-.3620	-.1990	.0340			.1500		-.0950	-.4370	-.3890	-.2390	-.1060
90.000		.8520	.2090	-.3430	-.1710	.1020			.1020		-.1600	-.4970	-.4570	-.2080	-.1090
[illegible].000			.1700	-.2870	.1680	.2730			.0730		-.[illegible]	-.5690	-.4160	-.1760	-.0850

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB25)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6840					
150.000			.1690	-.2050	.2420	.5840			.3280		-.5540	-.4750	-.3550	-.1960	-.0770
157.000								.5570							
162.000									.2140						
165.000											-.6330	-.4400	-.3160	-.2030	-.0800
169.000									.1980						
172.000							.8950								
180.000	1.3180	.7830	.0790	-.1030	.2700	.7920			.4910		-.7670	-.6490	-.2690	-.2110	-.0800

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1920							-.0110		-.0830
40.000	.1730	.1770		-.1290	-.1350	-.3060	-.2220			-.1770
70.000		-.0310	-.1060	-.0070	.0440	-.1530	-.2510	-.2190		
90.000		.0080	.0170	.0460	-.0280	-.1660	-.2590	-.2190		
105.000				.0630	-.0730	-.1680	-.2520	-.2370		
110.000									-.3460	
120.000		.0290	.2120	.2420	-.1610	-.2630	-.2030	-.1910	-.2840	
135.000				.6150	.2160	-.2910	-.1650	-.1540		
150.000		.0390	.2710	.3750	.2850	-.1350	-.1460	-.1780		
165.000		.0370		.3900	.3590	-.0360	-.0980	-.3590		
180.000		.0360	.2510	.3370						

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.2760	.8360	.0000	-.4850	-.2570	-.2160			.1760		.0550	-.0540	-.1610	-.2160	-.1770
20.000			.1310	-.4870	-.3110	-.1670			.1710		.0220				
40.000			.1340	-.4610	-.3290	-.1290			.1540		-.0430	-.1540	-.2380	-.3150	.0400
55.000			.1130	-.4820	-.3440	-.1280			.1020		-.0720				
70.000			.0830	-.4960	-.3860	-.0280			-.0570		-.1740	-.4940	-.4520	-.2580	-.0920
90.000		.6830	.0440	-.4720	-.3630	.0330			-.0800		-.2700	-.5530	-.5090	-.2050	-.0910
120.000			.0450	-.3880	-.0090	.1770			-.0650		-.4960	-.6310	-.4450	-.1930	-.0840
142.000										-.7550					
150.000			.0880	-.2410	.1120	.4920			.2340		-.6850	-.5960	-.3100	-.2260	-.1030
157.000								.4250							
.62.000									.1160						
165.000											-.8580	-.5740	-.3050	-.2320	-.1230
169.000									.1820						
172.000							.8360								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB25)

MACH (1) = 1.100 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2760	.7250	.0710	-.0560	.2160	.7620			.4710		-.7540	-.4870	-.4020	-.2370	-.1720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							-.0080		-.0580
40.000	.1490	-.0100		-.1300	-.1630	-.2130	-.1860			-.2160
70.000		.0170	.0200	.0030	.0000	-.2040	-.2890	-.2670		
90.000		.0570	.0930	.0450	-.0650	-.2090	-.2990	-.2760		
105.000				.0550	-.1360	-.2100	-.2990	-.2930		
110.000									-.3850	
120.000		.0900	.2410	.1500	-.2530	-.3430	-.2590	-.2780	-.3390	
135.000				.6880	.1750	-.3900	-.3370	-.2720		
150.000		.0970	.2670	.4790	.3190	-.1620	-.2640	-.2870		
165.000		.0600		.4440	.4030	-.1200	-.1650	-.4210		
180.000		-.0100	.1890	.2980						

MACH (1) = 1.096 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2190	.7980	.0000	-.4650	-.2230	-.4270			.0920		.0060	-.1040	-.2210	-.2600	-.3520
20.000			.0720	-.5160	-.2350	-.4070			.1160		-.0350				
40.000			.0030	-.5460	-.4310	-.2120			.0950		-.1130	-.2440	-.3590	-.4350	-.0450
55.000			-.0570	-.5940	-.4920	-.1270			.0400		-.1330				
70.000			-.1190	-.6340	-.5370	-.0490			-.0970		-.2420	-.5670	-.5290	-.2920	-.0120
90.000		.4970	-.1380	-.6120	-.5110	-.0110			-.1460		-.3690	-.6240	-.5780	-.2460	-.0080
120.000			-.1020	-.5000	-.2150	.0700			-.2040		-.5880	-.7420	-.4360	-.2610	-.0730
142.000										-.8270					
150.000			-.0300	-.2920	-.0420	.3600			.0900		-.7990	-.6510	-.4320	-.3140	-.1740
157.000								.2730							
162.000									.0160						
165.000											-.8750	-.6180	-.4780	-.4250	-.2770
169.000									.1390						
172.000							.7170								
180.000	1.2190	.6690	.0240	-.0700	.1130	.6810			.4150		-.7650	-.4900	-.5090	-.5990	-.4270

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							.0100		-.0720
40.000	.1100	.0730		-.2280	-.2380	-.2360	-.2330			-.2740

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM825)

MACH (1) = 1.096 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0210	.0110	-.0060	-.0070	-.2380	-.3260	-.2990		
90.000		.0570	.0890	.0410	-.0320	-.2510	-.3340	-.3100		
105.000				.0210	-.1970	-.2630	-.3350	-.3240		
110.000									-.4020	
120.000		.0730	.1950	.0920	-.3200	-.4160	-.3130	-.3330	-.3830	
135.000				.6690	.2230	-.4080	-.4360	-.3720		
150.000		.0430	.1590	.2250	-.3050	-.2440	-.3670	-.3900		
165.000		.0080		.3230	.2850	-.2380	-.2960	-.4640		
180.000		-.0550	.0800	.2060						

MACH (2) = 1.246 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2770	.9140	.0000	-.2310	-.0450	-.2620			-.3090		-.0640	.0790	-.0080	-.1660	-.3070
20.000			.4800	-.0960	-.0440	-.2530			-.2580		-.0810				
40.000			.6820	.1140	.1470	-.2250			-.2620		-.0440	-.0610	-.0820	-.0440	-.0440
55.000			.7590	.2430	.2850	.0480			.0790		.2180				
70.000			.7480	.2490	.2880	.1280			.1660		.1910	-.1830	-.1460	-.0380	-.0410
90.000		1.1660	.6580	.1740	.3200	.2460			.2640		.0520	-.2480	-.2040	-.0600	-.0690
120.000			.5040	.1220	.3390	.4590			.4430		-.0540	-.3000	-.2380	-.1290	-.1130
142.000										-.1680					
150.000			.3790	.0500	.3030	.7150			.5410		-.2870	-.2770	-.2340	-.1750	-.1280
157.000								.8030							
162.000									.4530						
165.000											-.3970	-.2310	-.2080	-.1610	-.1030
169.000									.2810						
172.000							.9490								
180.000	1.2770	.7460	.1570	.0120	.1990	.7500			.5310		-.6210	-.3740	-.3810	-.4160	-.3990

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0990							.0510		-.1080
40.000	-.0460	.4930		.1410	.1370	-.2220	-.5250			.0420
70.000		-.0870	-.1250	-.2030	.0800	-.0150	-.0830	-.0870		
90.000		-.1000	-.0890	.0970	.0050	.0120	-.1150	-.1320		
105.000				.1990	.0850	.0040	-.1440	-.1530		
110.000									-.1670	
120.000		-.1370	-.0930	.6010	.1330	-.1270	-.1190	-.0520	-.0750	
135.000				.3580	.2030	-.2520	.0180	.0920		
150.000		-.1210	.0760	.1630	.0720	-.0160	.1560	.1100		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB25)

MACH (2) = 1.246 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0840		.2490	.3370	.1450	.2030	-.0950		
180.000		-.2020	-.0090	.1680						

MACH (2) = 1.246 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3310	.9830	.0000	-.2840	-.1020	-.1670			-.1620		-.0660	.1400	.0310	-.1350	-.2370
20.000			.4260	-.1850	-.0610	-.2120			-.1850		.0570				
40.000			.5520	-.0930	.0760	-.2080			-.2660		.0100	-.0460	.0290	-.0860	-.1120
55.000			.5880	.0350	.1570	-.0080			-.0120		-.0300				
70.000			.5690	.0310	.1520	.0980			.1050		-.0610	-.2330	-.2000	-.0920	-.0790
90.000		1.0530	.4900	-.0040	.1930	.2130			.1940		-.0930	-.3670	-.2820	-.0930	-.0900
120.000			.3970	-.0170	.3130	.4260			.3350		-.1650	-.4110	-.2790	-.1430	-.0980
142.000										-.3650					
150.000			.3310	-.0410	.3070	.7090			.5070		-.3270	-.3520	-.2900	-.1980	-.1120
157.000								.7650							
162.000									.4150						
165.000											-.5570	-.2880	-.2880	-.1840	-.1050
169.000									.3120						
172.000							.9600								
180.000	1.3310	.7770	.1750	-.0150	.2540	.8160			.5660		-.5790	-.4040	-.3580	-.2360	-.1520

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0540							.0170		-.0870
40.000	-.0940	.3880		.0490	.0300	-.2600	-.2700			-.0060
70.000		-.1440	-.1270	-.1270	.0650	-.0490	-.1230	-.1340		
90.000		-.1150	-.0810	.0690	-.0220	-.0360	-.1510	-.1580		
105.000				.1470	.0180	-.0440	-.1710	-.1630		
110.000									-.2030	
120.000		-.0980	.0190	.4430	.0500	-.1750	-.1200	-.0800	-.1220	
135.000				.4880	.2470	-.2000	-.0170	.0210		
150.000		-.0700	.1170	.2450	.1890	-.0280	.0650	.0070		
165.000		-.0560		.2980	.3530	.1070	.0940	-.1800		
180.000		-.1300	.0140	.2530						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB25)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4170	.9650	.0000	-.4220	-.2580	-.0250			-.1440		-.1920	.1440	.0390	-.0870	-.1990
20.000			.2620	-.3680	-.2650	-.0390			-.1400		-.1730				
40.000			.3740	-.2500	-.1740	-.0480			-.1340		-.1460	-.0520	-.0160	-.1310	-.1510
55.000			.4090	-.1880	-.1060	.0540			.0070		-.0990				
70.000			.3940	-.1860	-.1170	.1350			.0970		-.1200	-.3910	-.3190	-.1550	-.0840
90.000		.9580	.3390	-.1840	-.0810	.2130			.1620		-.1690	-.4510	-.3430	-.1400	-.0870
120.000			.2700	-.1400	.0350	.3830			.2370		-.2370	-.4780	-.3830	-.1710	-.0910
142.000										-.4600					
150.000			.2570	-.1180	.1610	.6690			.4440		-.3780	-.3910	-.3190	-.2230	-.0870
157.000								.6590							
162.000									.3370						
165.000											-.6190	-.3440	-.2960	-.2230	-.0720
169.000									.3140						
172.000							.9630								
180.000	1.4170	.7890	.1650	-.0180	.1800	.8570			.5740		-.5620	-.4740	-.2420	-.2370	-.0630

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1030							.0030		-.0710
40.000	-.0040	.2420		-.0830	-.0630	-.3320	-.2470			-.0880
70.000		-.1400	-.1020	-.0700	.0300	-.0810	-.1580	-.1710		
90.000		-.1010	-.0290	.0460	-.0330	-.0870	-.1860	-.1680		
105.000				.1020	-.0320	-.0870	-.1890	-.1710		
110.000									-.2370	
120.000		-.0680	.1230	.2660	-.0340	-.2320	-.1330	-.1300	-.1850	
135.000				.5630	.2800	-.1930	-.1140	-.0850		
150.000		-.0470	.1670	.3100	.3200	-.0280	-.0550	-.0990		
165.000		-.0430		.3360	.3780	.0840	.0050	-.2580		
180.000		-.0420	.0720	.3130						

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.5290	.9670	.0000	-.3010	-.0790	-.1410			-.1850		-.0690	.1360	.0130	-.1010	-.2480
20.000			.2850	-.3030	-.1210	-.0830			-.1640		-.1630				
40.000			.2910	-.2710	-.1730	-.0970			-.1090		-.1590	-.0220	-.0790	-.1810	-.2270
55.000			.2710	-.2780	-.2030	-.0050			-.0030		-.1570				
70.000			.2360	-.2970	-.2420	.1000			.0450		-.1940	-.4500	-.3510	-.2050	-.0790
90.000		.7770	.1860	-.2890	-.2030	.1710			.0780		-.2460	-.4840	-.4540	-.1720	-.0800
120.000			.1670	-.2190	-.0640	.3060			.0940		-.3180	-.5290	-.4330	-.1990	-.0720

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB23)

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5300					
150.000			.2060	-.1280	.0990	.5830			.3550		-.4980	-.4390	-.2990	-.2700	-.0870
157.000								.5390							
162.000									.2420						
165.000											-.6430	-.4390	-.2520	-.2600	-.1220
169.000									.3020						
172.000							.9060								
180.000	1.3290	.7910	.1830	.0050	.2050	.8170			.5550		-.5550	-.4290	-.3320	-.2350	-.1410

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9282	.9639	1.0015	1.0392
PHI										
.000	.0550							.0180		-.0740
40.000	.0940	.0540		-.1380	-.1200	-.2550	-.1890			-.1780
70.000		-.0860	-.0780	-.0310	.0140	-.1270	-.1970	-.1980		
90.000		-.0710	-.0020	.0340	-.0430	-.1230	-.2100	-.1950		
105.000				.0350	-.0760	-.1380	-.2100	-.2100		
110.000									-.2500	
120.000		.0700	.1150	.1780	-.1290	-.3190	-.1910	-.1940	-.2170	
135.000				.7390	.2590	-.2610	-.2480	-.2270		
150.000		-.0560	.0170	.3610	.3510	-.0450	-.1490	-.1960		
165.000		-.0810		.4340	.4550	.0060	-.0790	-.3130		
180.000		-.1350	.0070	.2550						

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2750	.9020	.0000	-.2620	-.0600	-.2690			-.3040		-.0900	.1170	-.0170	-.1180	-.3070
20.000			.2210	-.3170	-.0920	-.2830			-.2620		.0630				
40.000			.1510	-.3490	-.2710	-.1750			-.1550		-.0330	-.0820	-.2100	-.2980	-.2480
55.000			.0910	-.4060	-.3340	-.0440			-.0460		-.2030				
70.000			.0350	-.4370	-.3730	.0750			.0100		-.2500	-.4920	-.4040	-.2450	-.0760
90.000		.5990	.0060	-.4250	-.3430	.1440			.0180		-.3070	-.5390	-.4870	-.2070	-.0760
120.000			.0310	-.3250	-.1260	.2190			-.0360		-.3960	-.5740	-.4520	-.2370	-.0820
142.000										-.6020					
150.000			.1040	-.1770	.0450	.4460			.2210		-.5070	-.4940	-.3190	-.2840	-.1060
157.000								.3950							
162.000									.1570						
165.000											-.6170	-.5190	-.3240	-.3490	-.2730
169.000									.2650						
172.000							.7890								

AMES 11-707 IA9 ORA + S3 + T9 ORBITER FUSELAGE (RBMB25)

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3663	.5120
PHI															
180.000	1.2750	.7520	.1410	.0040	.1770	.7290			.5070		-.5890	-.3850	-.3640	-.4090	-.3930
X/LB	.5373	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1050							.0410		-.1000					
40.000	.0510	-.0310		-.1850	-.2090	-.2080	-.1890			-.2650					
70.000		-.0160	-.0550	-.0070	.0310	-.1200	-.2100	-.2180							
90.000		-.0020	.0270	.0600	-.0270	-.1310	-.2240	-.2180							
105.000				.0500	-.1050	-.1460	-.2270	-.2330							
110.000									-.2920						
120.000		.0000	.1040	.1430	-.1970	-.3780	-.2120	-.2360	-.2870						
135.000				.7470	.2810	-.3000	-.3190	-.3260							
150.000		-.0940	.0100	.2220	.1530	-.0990	-.2210	-.2570							
165.000		-.1450		.3620	.4080	-.0450	-.1450	-.3630							
180.000		-.2170	.0030	.1790											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB26) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2400	.8220	.0000	-.4630	-.2420	-.4340			.0460		.0090	-.0840	-.2000	-.2880	-.3280
20.000			.3270	-.3080	-.2350	-.3600			-.0500		.0190				
40.000			.5340	-.0950	-.0300	-.1350			-.0860		-.0230	-.0800	-.0960	-.1290	-.0910
55.000			.6130	.0400	.1280	.2140			.2370		.1630				
70.000			.6040	.0540	.1460	.2520			.2700		.1310	-.3000	-.2150	-.1180	-.0940
90.000		1.0890	.5200	-.0170	.2000	.3060			.3000		.0890	-.3890	-.2670	-.1350	-.1490
120.000			.3580	-.0730	.2140	.4540			.4060		-.0570	-.4630	-.3770	-.2280	-.2140
142.000										-.2780					
150.000			.2300	-.1320	.1760	.6530			.4300		-.3980	-.3620	-.3740	-.2650	-.1910
157.000								.7110							
162.000									.3270						
165.000											-.4850	-.2950	-.3450	-.2350	-.1460
169.000									.1380						
172.000							.8690								
180.000	1.2400	.6770	-.0090	-.1700	.0820	.6910			.4210		-.3390	-.4850	-.5820	-.6400	-.3750

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1970							.0540		-.0950
40.000	.3210	.4630		.2130	.0680	-.3890	-.2930			-.1070
70.000		-.0410	-.2350	-.1210	.1270	-.0650	-.1580	-.1770		
90.000		-.0140	-.1780	.0890	.0440	-.0690	-.1980	-.2180		
105.000				.1670	.0270	-.0790	-.2270	-.2100		
110.000									-.2850	
120.000		-.0440	-.0340	.5530	.0230	-.1750	-.1980	-.0960	-.1720	
135.000				.3650	.1290	-.3080	-.0140	-.0030		
150.000		.0040	.1590	.1910	.0140	-.0730	.0810	-.0060		
165.000		.0360		.2630	.2810	.0440	.1090	-.2240		
180.000		-.0470	.0740	.1950						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB26)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3150	.8400	.0000	-.5320	-.3000	-.1910			.1670		.0570	-.0340	-.1300	-.2220	-.1540
20.000			.2380	-.4060	-.2890	-.2500			.1800		.0490				
40.000			.4070	-.2410	-.1240	-.3870			.1440		.0120	-.0570	-.1050	-.1410	-.1300
55.000			.4650	-.1530	-.0120	-.1240			.2550		.1030				
70.000			.4490	-.1590	-.0230	.0020			.2390		.0490	-.3510	-.2820	-.1800	-.1320
90.000		1.0000	.3670	-.1860	.0520	.1210			.2290		-.0070	-.4310	-.3450	-.1800	-.1470
120.000			.2550	-.2030	.2360	.3390			.2610		-.1680	-.5030	-.4100	-.2310	-.1340
142.000										-.5280					
150.000			.1880	-.2300	.2170	.6260			.3830		-.4690	-.3970	-.3580	-.2370	-.1130
157.000								.6500							
162.000									.2760						
165.000											-.7510	-.3490	-.3480	-.2010	-.1010
169.000									.1630						
172.000							.8990								
180.000	1.3150	.7300	.0160	-.1940	.1790	.7550			.4470		-.7990	-.5230	-.4520	-.2450	-.1860

X/LB	.5873	.6626	.7330	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2100							.0060		-.0910
40.000	.2480	.3460		.1170	.0010	-.4250	-.2280			-.0980
70.000		-.0430	-.2320	-.1180	.0750	-.1210	-.2170	-.2280		
90.000		-.0090	-.1580	.0360	-.0220	-.1300	-.2580	-.2340		
105.000				.1270	-.0560	-.1400	-.2740	-.2380		
110.000									-.3190	
120.000		-.0120	.0920	.4220	-.0760	-.2290	-.2050	-.1570	-.2320	
135.000				.4820	.1620	-.2970	-.0910	-.0720		
150.000		.0320	.1860	.2510	.1250	-.1410	-.0280	-.0970		
165.000		.0430		.2850	.3020	-.0250	-.0180	-.2900		
180.000		.0400	.1610	.2680						

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3170	.8130	.0000	-.6020	-.1680	-.1930			.1560		.0650	-.0310	-.0960	-.1680	.0300
20.000			.0750	-.5620	-.3290	-.2130			.1500		.0440				
40.000			.2130	-.4310	-.2640	-.2210			.1550		-.0040	-.0820	-.1410	-.1930	.0450
55.000			.2680	-.3590	-.2080	-.0850			.2020		.0160				
70.000			.2600	-.3570	-.2270	.0110			.1860		-.0580	-.4230	-.3790	-.2650	-.0980
90.000		.6570	.2080	-.3470	-.2060	.0970			.1480		-.1340	-.4890	-.4410	-.2340	-.1060
120.000			.1500	-.3070	-.0430	.2800			.1190		-.2980	-.5660	-.4430	-.1430	-.0820

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB26)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6840					
150.000			.1350	-.2870	.1340	.5830			.3180		-.5620	-.4970	-.3730	-.1830	-.0700
157.000								.5560							
162.000									.1980						
165.000											-.8510	-.4530	-.3270	-.1950	-.0720
169.000									.1650						
172.000							.8910								
180.000	1.3170	.7540	.0270	-.1630	.1990	.7820			.4580		-.7930	-.6730	-.2730	-.2080	-.0720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1810							-.0080		-.0410
40.000	.1570	.1750		.0020	-.1050	-.2420	-.2130			-.1400
70.000		-.0440	-.2140	-.0800	.0150	-.1510	-.2500	-.2340		
90.000		.0010	-.0900	-.0090	-.0680	-.1630	-.2660	-.2400		
105.000				.0220	-.1020	-.1690	-.2690	-.2560		
110.000									-.3600	
120.000		.0200	.1510	.2250	-.1510	-.2890	-.2180	-.2190	-.2880	
135.000				.5360	.2060	-.3030	-.1850	-.1730		
150.000		.0310	.2080	.3470	.2450	-.1620	-.1680	-.2020		
165.000		.0290		.3510	.3160	-.0610	-.1250	-.3630		
180.000		.0300	.1720	.2930						

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.8410	.0000	-.5340	-.3000	-.1900			.1800		.0620	-.0390	-.1280	-.1780	-.1040
20.000			.0800	-.5460	-.3200	-.1630			.1770		.0310				
40.000			.1070	-.5070	-.3680	-.1270			.1630		-.0280	-.1250	-.2020	-.2720	.0630
55.000			.1050	-.5070	-.3660	-.0960			.1360		-.0470				
70.000			.0810	-.5060	-.4080	-.0230			.0090		-.1390	-.4810	-.4440	-.3060	-.0760
90.000		.6970	.0440	-.4840	-.3810	.0460			-.0410		-.2440	-.5420	-.5020	-.2220	-.0810
120.000			.0230	-.4100	-.1770	.1920			-.0290		-.4990	-.6280	-.4780	-.1830	-.0700
142.000										-.7580					
150.000			.0530	-.3240	.0760	.4910			.2220		-.6820	-.6210	-.3130	-.2160	-.0860
157.000								.4250							
162.000									.0980						
165.000											-.8740	-.6000	-.2870	-.2240	-.1090
169.000									.1480						
.000							.8250								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB26)

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2950	.7050	.0200	-.1620	.1660	.7440			.4330		-.7790	-.5180	-.4230	-.2340	-.1680

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2120							.0010		-.0620
40.000	.1400	-.0340		-.0640	-.1490	-.2140	-.1840			-.1910
70.000		-.0360	-.0380	-.0230	-.0130	-.2210	-.3090	-.2990		
90.000		.0100	.0590	.0280	-.0780	-.2220	-.3210	-.3040		
105.000				.0350	-.1260	-.2230	-.3180	-.3220		
110.000									-.3620	
120.000		.0270	.2100	.1580	-.2280	-.3530	-.2750	-.2960	-.3490	
135.000				.6380	.1740	-.3880	-.3230	-.2800		
150.000		.0400	.2390	.4510	.2930	-.1890	-.2880	-.3020		
165.000		.0200		.4180	.3640	-.1290	-.2080	-.4220		
180.000		-.0110	.1580	.2650						

MACH (1) = 1.098 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2190	.8070	.0000	-.4670	-.2400	-.3450			-.0160		.0220	-.0880	-.2000	-.2300	-.3180
20.000			.0700	-.5250	-.2590	-.4140			.1100		-.0210				
40.000			.0060	-.5380	-.4510	-.2440			.1060		-.0980	-.2180	-.3300	-.3980	-.0120
55.000			-.0480	-.6050	-.5170	-.1280			.0650		-.1110				
70.000			-.1090	-.6350	-.5560	-.0410			-.0680		-.2180	-.5480	-.5140	-.3230	.0140
90.000		.5110	-.1350	-.6190	-.5260	.0080			-.1300		-.3490	-.6150	-.5590	-.2540	-.0200
120.000			-.1180	-.5150	-.2250	.0920			-.1810		-.5890	-.7150	-.4460	-.2470	-.0610
142.000										-.8300					
150.000			-.0570	-.3620	-.0850	.3570			.0870		-.8150	-.6720	-.4260	-.2890	-.1530
157.000								.2710							
162.000									.0030						
165.000											-.8870	-.6540	-.4850	-.4000	-.2290
169.000									.1150						
172.000							.7030								
180.000	1.2190	.6310	-.0230	-.1640	.0480	.6580			.3880		-.7970	-.5210	-.5530	-.6460	-.3940

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0230		-.0920
40.000	.1170	.0790		-.2100	-.2030	-.2120	-.2100			-.2740

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB26)

MACH (1) = 1.098 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0090	-.0350	-.0250	-.0200	-.2330	-.3190	-.3070		
90.000		.0320	.0500	.0260	-.0960	-.2470	-.3330	-.3140		
105.000				.0330	-.1730	-.2450	-.3270	-.3370		
110.000									-.3990	
120.000		.0660	.1790	.1070	-.2880	-.4120	-.3030	-.3280	-.3870	
135.000				.6510	.2120	-.3940	-.4010	-.3530		
150.000		.0460	.1540	.2600	-.0070	-.2660	-.3970	-.4130		
165.000		.0450		.3070	.2690	-.2170	-.3200	-.4570		
180.000		-.0620	.0700	.1880						

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2650	.9500	.0000	-.2490	-.0540	-.2660			-.2910		-.1770	-.0970	.0140	-.1350	-.2550
20.000			.5140	-.0900	-.0520	-.2610			-.2040		-.1370				
40.000			.7190	.1320	.1450	-.2280			-.1740		-.0780	-.0480	-.0750	.0210	-.0150
55.000			.7900	.2620	.2720	.0190			.0240		.1900				
70.000			.7650	.2570	.2640	.0820			.1460		.1620	-.1950	-.1670	-.0690	-.0420
90.000		1.1560	.6490	.1690	.2850	.1560			.2530		.0910	-.2660	-.2340	-.0990	-.0770
120.000			.4650	.0830	.2860	.4110			.4380		-.0180	-.3200	-.2730	-.1660	-.1390
142.000										-.1760					
150.000			.3280	-.0320	.2550	.6830			.5160		-.3160	-.2990	-.2620	-.2070	-.1480
157.000								.7870							
162.000									.4260						
165.000											-.4120	-.2170	-.2450	-.1930	-.1210
169.000									.2430						
172.000							.9350								
180.000	1.2650	.8950	.1060	-.0610	.1670	.7030			.4940		-.6400	-.4000	-.3960	-.4540	-.3350

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							.0700		-.1040
40.000	-.0120	.5170		.2200	.1810	-.2090	-.5180			.0560
70.000		-.0750	-.1620	-.2580	-.0040	-.0460	-.1050	-.1210		
90.000		-.0860	-.1310	.0560	-.0420	-.0130	-.1430	-.1640		
105.000				.1670	.0730	-.0690	-.1670	-.1830		
110.000									-.2050	
120.000		-.1600	-.1280	.6050	.1250	-.1440	-.1460	-.1250	-.1010	
135.000				.3180	.1690	-.2850	-.0800	.0500		
150.000		-.1130	.0660	.1210	.0510	-.0870	.1010	.0790		

AMES 11-70? IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB26)

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0800		.1980	.3170	.0800	.1550	-.1200		
180.000		-.1810	-.0090	.1730						

MACH (2) = 1.250 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3900	.9870	.0000	-.3370	-.1630	-.1370			-.1690		-.1350	.1680	.0690	-.1080	-.1980
20.000			.4050	-.2200	-.1260	-.2200			-.1710		.0080				
40.000			.5730	-.0470	.0410	-.2200			-.3120		.0270	-.0130	.0760	-.0660	-.0580
55.000			.6170	.0330	.1230	-.0330			-.0400		.1780				
70.000			.5840	.0150	.1030	.0290			.0860		-.0650	-.2330	-.1980	-.1090	-.0900
90.000		1.0730	.4800	-.0260	.1250	.1480			.1890		-.1180	-.2900	-.2730	-.1280	-.1110
120.000			.3430	-.0580	.1650	.3880			.3440		-.1880	-.4220	-.2930	-.1680	-.1220
142.000										-.3660					
150.000			.2690	-.1150	.1930	.6800			.4820		-.3540	-.3990	-.3210	-.2050	-.1240
157.000								.7370							
162.000									.3860						
165.000											-.5700	-.3170	-.3180	-.1910	.1090
169.000									.2760						
172.000							.9550								
180.000	1.3900	.7260	.1080	-.0770	.1170	.7870			.5270		-.5930	-.4320	-.3720	-.2450	-.1840

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0740							.0190		-.0920
40.000	-.0730	.4040		.0710	.0910	-.2370	-.3350			.0140
70.000		-.1580	-.1620	-.1950	.0080	-.0710	-.1390	-.1720		
90.000		-.1320	-.1140	.0490	-.0650	-.0590	-.1780	-.1940		
105.000				.1340	.0040	-.0910	-.1970	-.2040		
110.000									-.2240	
120.000		-.1150	-.0300	.4570	.0420	-.2040	-.1560	-.1230	-.1490	
135.000				.4300	.2060	-.2340	-.0740	-.0160		
150.000		-.0740	.1160	.1870	.1400	-.0760	.0250	-.0290		
165.000		-.0610		.2280	.3160	.0600	.0560	-.2010		
180.000		-.1090	.0370	.2280						

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB26)

MACH (2) = 1.248 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4090	.9860	.0000	-.4070	-.2550	-.0250			-.1740		-.2580	.1930	.0690	-.0730	-.1510
20.000			.2640	-.3760	-.2850	-.0470			-.1760		-.1750				
40.000			.3810	-.2520	-.2020	-.0660			-.1660		-.0180	.0460	-.0110	-.1100	-.1140
55.000			.4220	-.1790	-.1220	.0120			-.0120		-.1010				
70.000			.4060	-.1760	-.1270	.0750			.0870		-.1300	-.3050	-.2830	-.1740	-.1000
90.000		.9670	.3440	-.1810	-.0980	.1900			.1620		-.1910	-.4450	-.3450	-.1700	-.1060
120.000			.2540	-.1590	-.0320	.3700			.2510		-.2560	-.4890	-.4140	-.1760	-.0910
142.000										-.4760					
150.000			.2180	-.1670	.0930	.6520			.4220		-.4030	-.4260	-.3500	-.2110	-.0760
157.000								.6320							
162.000									.3110						
165.000											-.6380	-.3710	-.3290	-.2270	-.0660
169.000									.2720						
172.000							.9550								
180.000	1.4090	.7670	.1130	-.0770	.1110	.8300			.5290		-.5860	-.5020	-.2710	-.2640	-.0560

X/LB	.5873	.6626	.7380	.7869	.8263	.8648	.9062	.9639	1.0015	1.0392
PHI										
.000	.1250							.0090		-.0610
40.000	.0610	.2400		-.0660	-.0350	-.3180	-.2140			-.0950
70.000		-.1310	-.1440	-.1270	-.0190	-.1080	-.1840	-.2140		
90.000		-.1010	-.0820	.0230	-.0860	-.1010	-.2070	-.2060		
105.000				.0650	-.0470	-.1280	-.2150	-.2120		
110.000									-.2610	
120.000		-.0690	.0950	.2860	-.0430	-.2600	-.1770	-.1580	-.2140	
135.000				.4920	.2500	-.2110	-.1390	-.1140		
150.000		-.0470	.1510	.2910	.2620	-.0630	-.0820	-.1280		
165.000		-.0440		.2960	.3460	.0460	-.0250	-.2780		
180.000		-.0420	.0910	.2770						

MACH (2) = 1.246 BETAT (4) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3870	.9860	.0000	-.3400	-.1880	-.1150			-.1820		-.0630	.1480	.0400	-.0910	-.2080
20.000			.2490	-.3730	-.2700	-.0600			-.1860		-.2160				
40.000			.2630	-.3290	-.2530	-.0710			-.1570		-.1480	.0300	-.0710	-.1670	-.1990
55.000			.2500	-.3200	-.2630	-.0420			-.0240		-.1780				
70.000			.2160	-.3290	-.2900	.0870			.0530		-.2100	-.4640	-.3320	-.2220	-.0970
90.000		.8000	.1680	-.3300	-.2540	.1770			.0950		-.2810	-.5120	-.4170	-.1870	-.0900
120.000			.1230	-.2620	-.1360	.3110			.1140		-.3310	-.5410	-.4700	-.1800	-.0710

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM826)

MACH (2) = 1.246 BETAT (4) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5480					
150.000			.1390	-.1990	.0240	.5660			.3320		-.5140	-.4690	-.3300	-.2860	-.0640
157.000								.5210							
162.000									.2140						
165.000											-.6670	-.4670	-.2830	-.2790	-.0950
169.000									.2640						
172.000							.8790								
180.000	1.3870	.7260	.1040	-.0750	.1230	.7850			.5110		-.5870	-.4620	-.3620	-.2470	-.1380

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1360							.0150		-.0780
40.000	.1400	.0540		-.0810	-.0840	-.2310	-.1680			-.1700
70.000		-.0790	-.1310	-.0960	-.0320	-.1400	-.2130	-.1750		
90.000		-.0510	-.0400	.0060	-.0910	-.1490	-.2350	-.1870		
105.000				.0300	-.0950	-.1620	-.2290	-.2010		
110.000									-.2700	
120.000		-.0520	.1120	.1530	-.1290	-.3300	-.2020	-.1810	-.2470	
135.000				.5990	.2520	-.2720	-.2480	-.1940		
150.000		-.0540	.1280	.3760	.3290	-.0750	-.1720	-.1920		
165.000		-.0720		.3850	.4020	-.0070	-.1030	-.3280		
180.000		-.1240	.0360	.2230						

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2600	.9520	.0000	-.2640	-.0740	-.2800			-.2450		-.1920	-.0750	.0120	-.0860	-.2590
20.000			.2300	-.3350	-.1030	-.2850			-.2700		-.2000				
40.000			.1670	-.3600	-.2970	-.2230			-.1920		-.1480	-.0640	-.1730	-.2480	-.2550
55.000			.1040	-.4090	-.3610	-.1000			-.0610		-.2100				
70.000			.0400	-.4400	-.3980	.0350			.0020		-.2500	-.4980	-.4040	-.2550	-.0810
90.000		.5900	-.0060	-.4360	-.3620	.1350			.0220		-.3050	-.5500	-.4830	-.2020	-.0720
120.000			-.0080	-.3510	-.2320	.2230			-.0270		-.4050	-.5900	-.4800	-.2340	-.0740
142.000										-.6130					
150.000			.0520	-.2330	.0060	.4250			.2050		-.6160	-.5170	-.3310	-.3150	-.1570
157.000								.3860							
162.000									.1310						
165.000											-.6740	-.5350	-.3360	-.3780	-.2400
169.000									.2310						
172.000							.7620								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB26)

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2600	.6980	.0830	-.0730	.1300	.6780			.4650		-.6180	-.4040	-.3980	-.4750	-.4020

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1950							.0380		-.1020
40.000	.1010	-.0720		-.1680	-.1960	-.1890	-.1740			-.2640
70.000		-.0490	-.1250	-.0630	-.0030	-.1500	-.2340	-.2530		
90.000		-.0140	-.0450	.0200	-.0850	-.1590	-.2480	-.2510		
105.000				.0300	-.1080	-.1580	-.2560	-.2670		
110.000									-.3120	
120.000		-.0090	.1060	.1430	-.1760	-.3900	-.2390	-.2490	-.3120	
135.000				.7310	.2790	-.2760	-.2690	-.3220		
150.000		-.0450	-.0010	.2710	.0500	-.2000	-.2760	-.3140		
165.000		-.0660		.3560	.3290	-.0770	-.2000	-.3810		
180.000		-.1880	-.0180	.1760						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB27) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.2490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.097 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2490	.8370	.0000	-.4940	-.2720	-.3150			.0140		-.0020	-.0920	-.1890	-.2580	-.2620
20.000			.3250	-.3210	-.2560	-.2620			-.0410		.0050				
40.000			.5400	-.0960	-.0430	-.1630			-.0730		-.0370	-.0780	-.0920	-.0830	.0060
55.000			.6220	.0450	.1110	.1960			.2350		.1630				
70.000			.6060	.0510	.1120	.2590			.2680		.1280	-.3080	-.2310	-.1250	-.1040
90.000		1.0840	.5120	-.0340	.1650	.3120			.3070		.0800	-.4010	-.2750	-.1570	-.1670
120.000			.3300	-.1070	.1900	.4280			.4260		-.0840	-.4780	-.4130	-.2590	-.2510
142.000										-.2790					
150.000			.1870	-.2300	.1400	.6380			.4100		-.4320	-.4020	-.4030	-.2870	-.1930
157.000								.7000							
162.000									.3080						
165.000											-.4900	-.3190	-.3740	-.2560	-.1500
169.000									.1050						
172.000							.8500								
180.000	1.2480	.6390	-.0460	-.2470	.0450	.6670			.3880		-.8680	-.5240	-.6180	-.6630	-.3150

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0510		-.0690
40.000	.3110	.4540		.2260	.0710	-.3890	-.2990			-.0960
70.000		-.0440	-.2640	-.2440	.0860	-.0860	-.1720	.0350		
90.000		-.0120	-.2190	.0480	-.0480	-.0860	-.2300	-.0750		
105.000				.1170	-.0300	-.0990	-.2620	-.1300		
110.000									-.1050	
120.000		-.0570	-.1410	.5440	-.0070	-.1920	-.2340	-.1220	.0240	
135.000				.3380	.0920	-.3630	-.0850	-.0440		
150.000		.0000	.1220	.1580	-.0160	-.1600	.0380	-.0430		
165.000		.0130		.2200	.2430	-.0290	.0560	-.2510		
180.000		-.0550	.0690	.1810						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB27)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3040	.8140	.0000	-.5950	-.3260	-.2350			.1280		.0390	-.0330	-.0970	-.1820	-.0140
20.000			.1880	-.4560	-.3380	-.2050			.1290		.0230				
40.000			.3950	-.2620	-.1510	-.1250			.1150		.0020	-.0530	-.0880	-.1100	-.0470
55.000			.4670	-.1530	-.0400	-.0460			.2430		.1020				
70.000			.4560	-.1580	-.0570	.0890			.2510		.0470	-.3520	-.2940	-.1910	-.1490
90.000		1.0010	.3690	-.1950	-.0110	.2000			.2580		-.0120	-.4380	-.3470	-.2040	-.1670
120.000			.2400	-.2230	.0450	.3580			.3000		-.1920	-.5080	-.4400	-.2590	-.1490
142.000										-.4890					
150.000			.1540	-.2860	.1020	.6260			.3760		-.4810	-.4340	-.3850	-.2440	-.1100
157.000								.6570							
162.000									.2630						
165.000											-.7390	-.3660	-.3700	-.2050	-.0970
169.000									.1360						
172.000							.8990								
180.000	1.3040	.7080	-.0180	-.2390	.0380	.7470			.4240		-.8140	-.5390	-.4560	-.2540	-.1720

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							-.0010		-.0940
40.000	.2390	.3480		.1340	.0090	-.4240	-.2420			-.0970
70.000		-.0450	-.2620	-.2220	.0350	-.1430	-.2420	-.1920		
90.000		-.0070	-.2140	.0030	-.1000	-.1480	-.2810	-.2740		
105.000				.0970	-.1020	-.1490	-.3000	-.2680		
110.000									-.2610	
120.000		-.0220	.0070	.4280	-.0830	-.2530	-.2400	-.2090	-.2490	
135.000				.4380	.1280	-.3390	-.1380	-.1150		
150.000		.0170	.1490	.2100	.0890	-.1840	-.0790	-.1300		
165.000		.0290		.2410	.2730	-.0690	-.0570	-.3180		
180.000		.0190	.1300	.2350						

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3230	.8000	.0000	-.5130	-.1460	-.0700			.1250		.0550	-.0170	-.0620	-.1280	.0470
20.000			.0360	-.5450	-.1240	-.0800			.1280		.0360				
40.000			.2030	-.4420	-.2270	-.1980			.1340		-.0010	-.0660	-.1210	-.1630	.0520
55.000			.2700	-.3550	-.2010	-.1130			.1970		.0260				
70.000			.2670	-.3500	-.2360	-.0110			.1950		-.0460	-.4160	-.3760	-.2840	-.1010
90.000		.8570	.2040	-.3500	-.2160	.0880			.1820		-.1160	-.4930	-.4300	-.2650	-.1140
120.000			.1280	-.3250	-.1210	.2830			.1650		-.2370	-.5670	-.4830	-.2020	-.0840

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB27)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6810					
150.000			.0990	-.3230	.0020	.5780			.3140		-.5640	-.5120	-.3950	-.1810	-.0720
157.000								.5580							
162.000									.1850						
165.000											-.8570	-.4610	-.3380	-.1950	-.0710
169.000									.1430						
172.000							.8840								
180.000	1.3230	.6970	-.0080	-.2240	.0170	.7700			.4330		-.8070	-.6690	-.2850	-.2160	-.0680

X/LB	.5975	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							-.0110		-.0320
40.000	.1540	.1760		.0230	-.0950	-.1900	-.1750			-.1280
70.000		-.0400	-.2610	-.1660	-.0180	-.1640	-.2650	-.2630		
90.000		.0020	-.1550	-.0530	-.1210	-.1720	-.2910	-.2680		
105.000				.0000	-.1230	-.1720	-.2950	-.2900		
110.000									-.3580	
120.000		-.0020	.1410	.2320	-.1510	-.3090	-.2320	-.2410	-.3040	
135.000				.4720	.1880	-.3220	-.1990	-.1880		
150.000		.0140	.1840	.3220	.2180	-.1760	-.1940	-.2230		
165.000		.0210		.3180	.2650	-.0740	-.1490	-.3600		
180.000		.0260	.1450	.2620						

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3000	.8150	.0000	-.5820	-.3280	-.1860			.1230		.0320	-.0410	-.1040	-.1440	.0180
20.000			.0150	-.6040	-.3040	-.2380			.1330		.0110				
40.000			.0800	-.5460	-.3670	-.2200			.1280		-.0270	-.1090	-.1780	-.2360	.0490
55.000			.0980	-.5140	-.3810	-.1210			.1420		-.0360				
70.000			.0750	-.5100	-.4230	-.0290			.1230		-.1200	-.4710	-.4440	-.3410	-.0640
90.000		.6940	.0340	-.4990	-.3960	.0540			.0010		-.2210	-.5460	-.4960	-.2480	-.0740
120.000			.0010	-.4300	-.2780	.2050			-.0090		-.4060	-.6290	-.5160	-.1690	-.0620
142.000										-.7690					
150.000			.0160	-.3650	-.0820	.4950			.2160		-.6900	-.6040	-.3220	-.2180	-.0740
157.000								.4290							
162.000									.0850						
165.000											-.8880	-.6200	-.2940	-.2260	-.0930
169.000									.1230						
172.000							.8230								

AMES 11-707 IA9 02A + 33 + T9 ORBITER FUSELAGE (RBMB27)

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3000	.6820	-.0170	-.2350	.0230	.7370			.4080		-.8000	-.5430	-.4340	-.2440	-.1810
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2040							-.0070		-.0740					
40.000	.1390	-.0160		-.0500	-.1330	-.2110	-.1720			-.1850					
70.000		-.0710	-.1300	-.0560	-.0330	-.2340	-.3250	-.3290							
90.000		.0050	-.0080	-.0110	-.1060	-.2340	-.3450	-.3280							
105.000				.0030	-.1400	-.2350	-.3440	-.3440							
110.000									-.3910						
120.000		.0420	.1580	.1410	-.2230	-.3690	-.2900	-.3130	-.3650						
135.000				.6190	.1600	-.3970	-.3270	-.2950							
150.000		.0540	.2060	.4160	.2590	-.2160	-.3070	-.3210							
165.000		.0490		.3950	.3330	-.1470	-.2310	-.4220							
180.000		-.0010	.1250	.2260											

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2400	.8340	.0000	-.4930	-.2670	-.2810			-.0770		.0280	-.0810	-.1850	-.1900	-.2230
20.000			.0490	-.5510	-.2810	-.2730			.0930		-.0140				
40.000			-.0080	-.5820	-.4710	-.1950			.1130		-.0830	-.1970	-.3040	-.3610	.0010
55.000			-.0560	-.6230	-.5320	-.1250			.0890		-.0840				
70.000			-.1160	-.6440	-.5700	-.0420			.0100		-.1920	-.5270	-.5060	-.3630	.0180
90.000		.5150	-.1440	-.6300	-.5470	.0180			-.0910		-.3230	-.5940	-.5560	-.2660	-.0130
120.000			-.1410	-.5340	-.3630	.1080			-.1600		-.5810	-.7050	-.4600	-.2410	-.0460
142.000										-.8360					
150.000			-.0940	-.4110	-.0970	.3530			.0790		-.8270	-.6900	-.4080	-.2810	-.1010
157.000								.2650							
162.000									-.0130						
165.000											-.8950	-.6790	-.4730	-.3560	-.1680
169.000									.0910						
172.000							.6860								
180.000	1.2400	.6230	-.0670	-.2380	.0140	.6360			.3580		-.8230	-.5510	-.4560	-.3730	-.2330
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1890							.0180		-.0750					
000	.1110	.0730		-.1940	-.1980	-.2020	-.2010			-.2660					

AMES 11-7OT 1A9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB27)

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0500	-.1190	-.0540	-.0360	-.2500	-.3280	-.3320		
90.000		.0070	-.0180	-.0050	-.1110	-.2400	-.3360	-.3200		
105.000				.0110	-.1630	-.2400	-.3290	-.3490		
110.000									-.4070	
120.000		.0450	.1490	.1350	-.2770	-.4160	-.3020	-.3320	-.3970	
135.000				.6440	.2050	-.3830	-.3750	-.3360		
150.000		.0360	.1280	.2780	-.0030	-.2990	-.4260	-.4470		
165.000		.0690		.2990	.2470	-.2320	-.3390	-.4570		
180.000		-.0670	.0460	.1720						

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3330	.9690	.0000	-.2910	-.1100	-.2300			-.1640		-.1530	-.1330	-.0100	-.1070	-.2010
20.000			.4800	-.1450	-.1060	-.1830			-.1540		-.1020				
40.000			.7060	.0930	.1150	-.1360			-.1410		-.0800	-.0090	-.0840	-.0670	.0110
55.000			.7860	.2400	.2510	.0470			.2100		.1590				
70.000			.7720	.2350	.2330	.0590			.3080		.1310	-.2040	-.1700	-.0810	-.0470
90.000		1.1920	.6530	.1440	.2490	.1050			.3630		.0590	-.2680	-.2300	-.1280	-.1010
120.000			.4210	.0330	.2250	.3570			.4950		-.0610	-.3360	-.3240	-.2010	-.1740
142.000										-.1630					
150.000			.2720	-.1100	.1900	.6590			.4940		-.3290	-.3320	-.2930	-.2340	-.1770
157.000								.7690							
162.000									.4020						
165.000											-.3920	-.2430	-.2710	-.2120	-.1400
169.000									.2100						
172.000							.9190								
180.000	1.3330	.6680	.0490	-.1310	.1260	.6710			.4570		-.6560	-.4290	-.4300	-.5080	-.3720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2100							.0700		-.0710
40.000	.0820	.4890		.3000	.1710	-.2140	-.4900			.0550
70.000		-.0600	-.2040	-.2900	-.0620	-.0660	-.1300	-.1540		
90.000		-.0720	-.1680	.0210	-.0850	-.0490	-.1590	-.1860		
105.000				.1310	.0570	-.1100	-.1790	-.2120		
110.000									-.2300	
120.000		-.1530	-.1660	.6010	.1100	-.1620	-.2050	-.1750	-.1280	
135.000				.2850	.1370	-.3130	-.1570	-.0040		
150.000		-.1050	.0600	.1130	.0230	-.1350	.0480	.0310		

AMES 11-707 IA9 02A + 33 + 19 ORBITER FUSELAGE (RBMB27)

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0820		.1690	.2670	.0280	.0900	-.1610		
180.000		-.1670	.0140	.1690						

MACH (2) = 1.247 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3820	.9770	.0000	-.5690	-.2340	-.0360			-.1900		-.2360	.1770	.0510	-.0940	-.1680
20.000			.3750	-.2680	-.2040	-.1300			-.0970		-.1350				
40.000			.5620	-.0710	.0020	-.2210			-.0390		.0340	-.0220	.0270	-.0350	-.0480
55.000			.6220	.0240	.0930	-.0510			-.0860		.0780				
70.000			.5970	.0130	.0620	.0040			.0610		.0380	-.2340	-.2360	-.1320	-.1070
90.000		1.0890	.4920	-.0420	.0720	.0550			.1790		-.0350	-.3130	-.2790	-.1650	-.1370
120.000			.3250	-.0620	.0870	.3550			.3410		-.2020	-.3940	-.3210	-.2030	-.1520
142.000										-.3880					
150.000			.2280	-.1700	.1110	.6650			.4630		-.3840	-.4350	-.3220	-.2330	-.1300
157.000								.7380							
162.000									.3630						
165.000											-.5960	-.3450	-.3060	-.2120	-.1070
169.000									.2380						
172.000							.5830								
180.000	1.3820	.7150	.0640	-.1320	.0450	.7570			.4930		-.6170	-.4550	-.3760	-.2750	-.2100

X/LB	.5873	.6626	.7380	.7889	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1890							.0250		-.0910
40.000	-.0160	.3970		.0620	.1580	-.2400	-.2750			.0120
70.000		-.1480	-.1940	-.2570	-.0690	-.0910	-.1620	-.2040		
90.000		-.1300	-.1460	.0280	-.0950	-.0870	-.2000	-.2200		
105.000				.1200	-.0060	-.1520	-.2150	-.2390		
110.000									-.2430	
120.000		-.1220	-.0750	.4810	.0420	-.2220	-.2260	-.1560	-.1750	
135.000				.3950	.1740	-.2710	-.1180	-.0590		
150.000		-.0740	.1030	.1610	.1060	-.1120	-.0140	-.0570		
165.000		-.0640		.1890	.2830	.0190	.0170	-.2220		
180.000		-.0930	.0500	.2060						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB27)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4000	.9750	.0000	-.4030	-.2400	-.0510			-.1940		-.2490	.1930	.0740	-.0500	-.1130
20.000			.2420	-.3970	-.2750	-.0810			-.1910		-.1810				
40.000			.3750	-.2710	-.2250	-.1020			-.1980		-.0670	.0620	-.0030	-.0840	-.0940
55.000			.4250	-.1820	-.1330	-.0190			-.0390		-.0200				
70.000			.4120	-.1790	-.1340	.0330			.0670		-.0990	-.3090	-.2760	-.1850	-.1260
90.000		.9590	.3360	-.1880	-.1100	.1510			.1550		-.1920	-.4170	-.3480	-.1970	-.1300
120.000			.2370	-.1770	-.0550	.3640			.2550		-.2760	-.4930	-.3820	-.1930	-.1040
142.030										-.4830					
150.000			.1920	-.1970	.0320	.6450			.4170		-.4260	-.4650	-.3740	-.2140	-.0710
157.000								.6640							
162.000									.2980						
165.000											-.6540	-.3940	-.3560	-.2200	-.0610
169.000									.2480						
172.000							.9590								
180.000	1.4000	.7450	.0820	-.1210	.0510	.8120			.5020		-.6040	-.5250	-.2920	-.2630	-.0510

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1690							.0040		-.0580
40.000	.1350	.2290		-.0260	-.0050	-.3160	-.2000			-.1190
70.000		-.1170	-.1780	-.1810	-.0790	-.1240	-.2040	-.2430		
90.000		-.0810	-.1200	-.0030	-.1220	-.1360	-.2270	-.2350		
105.000				.0520	-.0570	-.1570	-.2360	-.2410		
110.000									-.2740	
120.000		-.0700	.0740	.2640	-.0250	-.2800	-.2250	-.1720	-.2290	
135.000				.4450	.2270	-.2320	-.1580	-.1410		
150.000		-.0490	.1390	.2710	.2270	-.0880	-.1050	-.1540		
165.000		-.0460		.2750	.2960	.0200	-.0580	-.2860		
180.000		-.0430	.0870	.2520						

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3840	.9820	.0000	-.3760	-.2520	-.0260			-.1810		-.1670	.1740	.0460	-.0580	-.1680
20.000			.2010	-.4130	-.3180	-.0520			-.2130		-.2120				
40.000			.2470	-.3610	-.2860	-.0890			-.1980		-.0860	.0280	-.0400	-.1570	-.1570
55.000			.2440	-.3280	-.2840	-.0460			-.0570		-.1450				
70.000			.2120	-.3300	-.3000	.0360			.0420		-.2020	-.3920	-.3250	-.2350	-.1070
90.000		.7910	.1670	-.3280	-.2680	.1810			.1080		-.2480	-.5170	-.3680	-.2060	-.0990
120.000			.1140	-.2770	-.1760	.3260			.1430		-.3370	-.5410	-.4910	-.1640	-.0720

AMES 11-707 IA9 CEA + S3 + T9 ORBITER FUSELAGE (RBMB27)

MACH (2) = 1.251 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5500					
150.000			.1120	-.2350	-.0400	.5700			.3290		-.5080	-.4840	-.3530	-.2420	-.0640
157.000								.5370							
162.000									.2020						
165.000											-.6700	-.4760	-.3020	-.2810	-.0820
169.000									.2360						
172.000							.8940								
180.000	1.3840	.7290	.0620	-.1240	.0540	.7680			.4780		-.5960	-.4760	-.3600	-.2690	-.1860

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1930							.0150		-.0760
40.000	.1620	.0460		-.0430	-.0800	-.2280	-.1690			-.1650
70.000		-.0860	-.1670	-.1420	-.0690	-.1570	-.2300	-.2140		
90.000		-.0470	-.0820	-.0290	-.1340	-.1600	-.2480	-.2350		
105.000				.0190	-.1130	-.1780	-.2460	-.2430		
110.000									-.2850	
120.000		-.0350	.0990	.2040	-.1100	-.3450	-.2390	-.1840	-.2610	
135.000				.5570	.2360	-.2790	-.2420	-.2060		
150.000		-.0450	.1210	.3480	.3150	-.0970	-.1830	-.2170		
165.000		-.0610		.3480	.3600	-.0160	-.1120	-.3320		
180.000		-.0960	.0490	.2020						

MACH (2) = 1.246 BETAT (5) = 0.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3220	.9570	.0000	-.3060	-.1090	-.2310			-.2060		-.1710	-.1050	.0330	-.0670	-.2080
20.000			.1870	-.3800	-.1490	-.2480			-.2240		-.2290				
40.000			.1420	-.3920	-.3340	-.2420			-.1950		-.1610	-.0690	-.1510	-.2250	-.2370
55.000			.0970	-.4280	-.3860	-.1200			-.0620		-.1680				
70.000			.0410	-.4530	-.4260	-.0150			.0060		-.2380	-.4790	-.4070	-.2730	-.0570
90.000		.6200	-.0120	-.4540	-.3970	.1320			.0350		-.2930	-.5520	-.4760	-.2000	-.0450
120.000			-.0450	-.3730	-.2770	.2340			-.0160		-.4070	-.5930	-.4970	-.2080	-.0770
142.000										-.6190					
150.000			-.0030	-.2740	-.0590	.4070			.1960		-.6270	-.5310	-.3440	-.3260	-.1260
157.000								.3780							
162.000									.1130						
165.000											-.6840	-.5490	-.3530	-.3820	-.2090
169.000									.2020						
172.000							.7470								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB27)

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3220	.6430	.0290	-.1340	.0910	.6470			.4320		-.6370	-.4290	-.4410	-.5200	-.3850
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2350							.0270		-.0790					
40.000	.1260	-.0810		-.1520	-.1840	-.1770	-.1660			-.2680					
70.000		-.0710	-.1730	-.1150	-.0290	-.1590	-.2410	-.2740							
90.000		-.0200	-.0830	-.0060	-.1190	-.1690	-.2620	-.2680							
105.000				.0490	-.1400	-.2020	-.2610	-.2850							
110.000									-.3220						
120.000		-.0110	.0920	.2070	-.1590	-.3970	-.2680	-.2520	-.3220						
135.000				.6340	.2880	-.2830	-.2730	-.3170							
150.000		-.0360	.0520	.2460	.0580	-.2340	-.3070	-.3480							
165.000		-.0310		.3020	.2930	-.1010	-.2020	-.3890							
180.000		-.1660	.0060	.1690											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB28) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.099 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.7820	.0000	-.5680	-.3350	-.0750			-.0730		-.0530	-.0260	-.1260	-.2080	-.1680
20.000			.2680	-.3900	-.3220	-.1690			.0040		-.0920				
40.000			.5390	-.1240	-.0640	-.1960			.0380		-.0800	-.0400	-.0370	-.0490	.0690
55.000			.6360	.0330	.1010	.1500			.2590		.1440				
70.000			.6190	.0440	.0860	.2210			.2770		.1200	-.3140	-.2190	-.1310	-.1040
90.000		1.1070	.5070	-.0450	.1200	.2870			.3140		.0710	-.4100	-.2640	-.1750	-.1890
120.000			.3050	-.1430	.1120	.4100			.4450		-.1090	-.4890	-.4630	-.2880	-.2850
142.000										-.2760					
150.000			.1510	-.2890	.1000	.6250			.3970		-.4650	-.4400	-.4280	-.3000	-.1930
157.000								.6920							
162.000									.2940						
165.000											-.4880	-.3360	-.3970	-.2980	-.1470
169.000									.0770						
172.000							.8450								
180.000	1.2990	.6220	-.0820	-.3060	.0090	.6500			.3620		-.8870	-.5570	-.6960	-.6570	-.2700

X/LB	.5873	.6628	.7380	.7869	.8283	.8648	.9282	.9639	1.0015	1.0392
PHI										
.000	.2010							.0490		-.0670
40.000	.3140	.4430		.2330	.0760	-.3900	-.3010			-.0820
70.000		-.0600	-.3030	-.3450	.0180	-.0700	-.1000	.0880		
90.000		-.0360	-.2600	.0140	-.1510	-.0950	-.1640	.1200		
105.000				.0700	-.0500	-.1200	-.2010	.0840		
110.000									-.1430	
120.000		-.0990	-.2080	.5320	-.0040	-.2220	-.2290	.1180	-.0220	
135.000				.2890	.0580	-.4120	-.1750	.0590		
150.000		-.0100	.0780	.1280	-.0430	-.2180	-.0290	-.0510		
165.000		-.0010		.1910	.1970	-.0860	-.0100	-.2830		
180.000		-.0350	.0520	.1670						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB28)

MACH (1) = 1.098 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.7740	.0000	-.6200	-.2110	-.1810			.0830		.0330	-.0180	-.0750	-.1350	.0800
20.000			.1480	-.5000	-.3610	-.1690			.0900		.0140				
40.000			.3860	-.2760	-.1760	-.1270			.0930		.0070	-.0310	-.0600	-.0810	.0570
55.000			.4770	-.1490	-.0480	.1280			.2250		.0990				
70.000			.4690	-.1480	-.0690	.1950			.2450		.0520	-.3510	-.2680	-.1960	-.1540
90.000		1.0020	.3720	-.1960	-.0440	.2540			.2670		-.0120	-.4460	-.3360	-.2300	-.1860
120.000			.2180	-.2430	-.0230	.3790			.3320		-.1920	-.5180	-.4650	-.2810	-.1660
142.000										-.4460					
150.000			.1180	-.3230	.0110	.6250			.3690		-.5040	-.4980	-.4130	-.2360	-.1130
157.000								.6620							
162.000									.2530						
165.000											-.7310	-.3870	-.3920	-.1980	-.1060
169.000									.1150						
172.000							.8910								
180.000	1.3090	.6610	-.0570	-.2780	-.0670	.7270			.4010		-.8370	-.5670	-.4360	-.2650	-.1540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1960							.0110		-.0950
40.000	.2450	.3520		.1550	.0180	-.4210	-.2270			-.0980
70.000		-.0470	-.3030	-.2910	-.0390	-.1660	-.2470	.0480		
90.000		-.0120	-.2480	-.0200	-.1840	-.1570	-.3030	.1050		
105.000				.0610	-.1120	-.1590	-.3210	-.0160		
110.000									-.1320	
120.000		-.3470	-.0910	.4320	-.0830	-.3280	-.2690	-.2260	-.0120	
135.000				.3940	.0930	-.3680	-.1980	-.1450		
150.000		.0020	.1220	.1860	.0490	-.2240	-.1210	-.1590		
165.000		.0090		.2080	.2270	-.1060	-.1030	-.3350		
180.000		.0160	.1010	.2090						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3290	.7590	.0000	-.4430	-.1470	.0310			.0970		.0490	-.0080	-.0620	-.0380	.0510
20.000			.0090	-.4900	-.1110	.0360			.1000		.0320				
40.000			.2000	-.4450	-.1630	-.0770			.1240		.0000	-.0520	-.0990	-.1280	.0470
55.000			.2780	-.3440	-.1940	-.0550			.1920		.0350				
70.000			.2760	-.3420	-.2410	.0300			.2000		-.0280	-.4180	-.3820	-.2860	-.0880
90.000		.8560	.2040	-.3510	-.2260	.1330			.2030		-.1070	-.5050	-.4290	-.2960	-.1100
120.000			.1100	-.3410	-.1620	.2990			.2000		-.2950	-.5790	-.5040	-.2200	-.0820

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB28)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6780					
150.000			.0640	-.3570	-.0560	.5780			.3100		-.5790	-.5450	-.4190	-.1910	-.0630
157.000								.5640							
162.000									.1770						
165.000											-.5780	-.4790	-.3470	-.1900	-.0580
169.000									.1240						
172.000							.8760								
180.000	1.3290	.6840	-.0470	-.2660	-.0530	.7570			.4110		-.8360	-.6680	-.3010	-.2150	-.0600

X/LB	.5873	.6626	.7380	.7889	.8285	.8840	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							-.0090		-.0380
40.000	.1580	.1890		.0500	-.0730	-.1810	-.1650			-.1270
70.000		-.0950	-.3010	-.2600	-.0860	-.1870	-.2810	-.2480		
90.000		-.0590	-.2210	-.0700	-.1800	-.1830	-.3170	-.3060		
109.000				-.0020	-.1580	-.1830	-.3220	-.3160		
110.000									-.3680	
120.000		-.0230	.0920	.2450	-.1560	-.3660	-.2510	-.2600	-.3240	
135.000				.4060	.1550	-.3380	-.2460	-.2090		
150.000		.0090	.1560	.2690	.1810	-.1960	-.2150	-.2590		
165.000		.0200		.2780	.2350	-.0930	-.1640	-.3660		
180.000		.0280	.0990	.2210						

MACH (1) = 1.102 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2910	.7710	.0000	-.6070	-.2290	-.1690			.1120		.0310	-.0290	-.0800	-.0950	.0610
20.000			-.0380	-.6250	-.1750	-.2010			.1060		.0160				
40.000			.0550	-.5770	-.3140	-.2070			.1130		-.0120	-.0880	-.1580	-.1970	.0290
55.000			.0910	-.5180	-.3700	-.1460			.1470		-.0180				
70.000			.0750	-.5180	-.4180	-.0540			.1430		-.0980	-.4620	-.4390	-.3580	-.0510
90.000		.6910	.0320	-.5030	-.4000	.0390			.0990		-.1950	-.5450	-.4870	-.2850	-.0600
120.000			-.0170	-.4430	-.3070	.2050			.0050		-.3540	-.6260	-.5090	-.1990	-.0500
142.000										-.7730					
150.000			-.0190	-.3970	-.1440	.4920			.2110		-.6990	-.6060	-.3350	-.2020	-.0590
157.000								.4340							
162.000									.0740						
165.000											-.9020	-.5990	-.3000	-.2140	-.0750
169.000									.1070						
172.000							.8160								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB28)

MACH (1) = 1.102 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2910	.6710	-.0530	-.2730	-.0560	.7240			.3870		-.8200	-.5670	-.4200	-.2520	-.1610

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1930							-.0150		-.0610
40.000	.1297	-.0120		-.0290	-.1240	-.2110	-.1630			-.1760
70.000		-.0890	-.1940	-.0930	-.0520	-.2430	-.3300	-.3480		
90.000		-.0280	-.0640	-.0540	-.1360	-.2470	-.3540	-.3480		
105.000				-.0190	-.1490	-.2450	-.3560	-.3630		
110.000									-.4050	
120.000		.0020	.1040	.1030	-.2310	-.3870	-.3010	-.3280	-.3850	
135.000				.6150	.1560	-.4040	-.3290	-.3080		
150.000		.0390	.1740	.3960	.2330	-.2320	-.3170	-.3320		
165.000		.0580		.3820	.3180	-.1570	-.2490	-.4210		
180.000		.0260	.1040	.2040						

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2400	.8050	.0000	-.5390	-.2860	-.3090			-.0310		.0130	-.0890	-.1720	-.1500	-.1800
20.000			-.0010	-.5920	-.2690	-.2420			.0410		-.0220				
40.000			-.0390	-.6110	-.4830	-.1940			.1250		-.0950	-.2010	-.2940	-.3380	.0050
55.000			-.0550	-.6450	-.5650	-.0770			.0910		-.0820				
70.000			-.1320	-.6610	-.5930	-.0060			.0320		-.1700	-.5390	-.5240	-.4190	.0060
90.000		.5010	-.1600	-.6460	-.5680	.0410			-.0530		-.3040	-.6140	-.5950	-.2930	.0200
120.000			-.1700	-.5600	-.4430	.1290			-.1330		-.5680	-.7170	-.5110	-.2480	.0440
142.000										-.8480					
150.000			-.1290	-.4590	-.1560	.3510			.0680		-.8610	-.7190	-.4040	-.2870	-.0770
157.000								.2650							
162.000									-.0330						
165.000											-.9300	-.7140	-.4690	-.3450	-.1560
169.000									.0620						
172.000							.6700								
180.000	1.2400	.5710	-.1110	-.3040	-.0240	.6090			.3250		-.8710	-.5980	-.7640	-.5980	-.2880

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1650							.0080		-.0730
40.000	.0890	.0270		-.1950	-.1990	-.2010	-.1910			-.2430

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB28)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0790	-.2170	-.1180	-.0590	-.2420	-.3440	-.3650		
90.000		-.0210	-.1100	-.0610	-.1370	-.2430	-.3570	-.3650		
105.000				-.0260	-.2260	-.2580	-.3560	-.3720		
110.000									-.4290	
120.000		.0290	.0710	.1480	-.2850	-.4020	-.3220	-.3470	-.4210	
135.000				.6000	.1870	-.4010	-.3650	-.3450		
150.000		.0310	.1040	.2500	-.0020	-.3220	-.4430	-.4650		
165.000		.0510		.2810	.2250	-.2810	-.3490	-.4550		
180.000		-.0530	.0240	.1530						

MACH (2) = 1.248 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3330	.9770	.0000	-.3150	-.1650	-.1480			-.1350		-.1900	-.1440	-.1580	-.0270	-.1570
20.000			.4690	-.1670	-.1420	-.1380			-.1630		-.1150				
40.000			.7120	.0920	.0980	-.0880			-.1740		-.0340	-.0150	-.0780	-.0190	.0500
55.000			.7890	.2370	.2360	.1210			.1190		.1400				
70.000			.7680	.2340	.2080	.1370			.2640		.1300	-.2080	-.1790	-.0750	-.0460
90.000		1.1930	.6380	.1340	.2140	.1480			.3420		.0600	-.2780	-.2540	-.1430	-.1130
120.000			.4110	.0020	.1620	.2870			.5090		-.0910	-.3510	-.3610	-.2220	-.2040
142.000										-.1640					
150.000			.2390	-.1540	.1020	.6430			.4890		-.3730	-.3690	-.3140	-.2590	-.1920
157.000								.7940							
162.000									.3920						
165.000											-.3920	-.2620	-.2910	-.2260	-.1470
169.000									.1840						
172.000							.9340								
180.000	1.3350	.6340	.0040	-.1890	.0320	.6000			.4270		-.6760	-.4850	-.4950	-.5365	-.31

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2280							.0700		-.0640
40.000	.2980	.4540		.3080	.1660	-.2250	-.4380			.0330
75.000		-.0690	-.2350	-.3230	-.0990	-.0920	-.1590	-.1750		
90.000		-.0930	-.2060	-.0180	-.1270	-.1060	-.1780	-.2110		
105.000				.0910	.0470	-.1050	-.1980	-.2420		
110.000									-.2500	
120.000		-.1640	-.2040	.3890	.1020	-.1800	-.2330	-.2070	-.1650	
135.000				.2430	.1110	-.1400	-.0770	-.0660		
150.000		-.0960	.0450	.1270	.0050	-.1630	-.0960	-.0160		

AMES 11-737 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB28)

MACH (2) = 1.248 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0710		.1650	.2150	-.0150	.0320	-.2010		
180.000		-.1170	.0220	.1660						

MACH (2) = 1.951 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3009	.3953	.5120
PHI															
.000	1.3940	.9770	.3000	-.4000	-.2690	-.0500			-.1450		-.2390	.1720	.0920	-.0450	-.1250
20.000			.3680	.2780	-.2370	.0070			-.1170		-.1870				
40.000			.5760	-.0620	-.0110	-.1140			-.0810		-.0420	-.0440	.0460	.0130	-.0160
55.000			.6380	.0420	.0850	-.0660			.0310		.0170				
70.000			.6100	.0270	.0490	-.0160			.1830		.0120	-.2220	-.2350	-.1190	-.1150
90.000		1.0940	.4980	-.0330	.0590	.0300			.2310		-.0290	-.3430	-.2840	-.1700	-.1580
120.000			.3150	-.1040	.0480	.2990			.3460		-.1620	-.4060	-.3450	-.2290	-.1810
142.000										-.3810					
150.000			.2060	-.1940	.0340	.6470			.4560		-.3910	-.4470	-.3400	-.2550	-.1280
157.000								.7610							
162.000									.3550						
165.000											-.6020	-.3330	-.3300	-.2270	-.1020
169.000									.2200						
172.000							.9710								
180.000	1.3840	.6860	.0380	-.1640	-.0120	.7030			.4700		-.6300	-.4580	-.3860	-.2990	-.2060

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.00.5	1.0392
PHI										
.000	.2340							.0420		-.0810
40.000	.1090	.3791		.2190	.1250	-.2490	-.2220			-.0170
70.000		-.1310	-.2210	-.2980	-.1090	-.1080	-.1800	-.2310		
90.000		-.1410	-.1720	-.0030	-.1270	-.1420	-.2100	-.2300		
105.000				.0980	-.0120	-.1420	-.2280	-.2540		
110.000									-.2600	
120.000		-.1250	-.1040	.4800	.0390	-.2310	-.2480	-.1830	-.1960	
135.000				.3530	.1510	-.2970	-.1540	-.0900		
150.000		-.0710	.0840	.1503	.0790	-.1410	-.0450	-.0790		
165.000		-.0640		.1780	.2400	-.0120	-.0180	-.2390		
180.000		-.0760	.0510	.1890						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM828)

MACH (2) = 1.249 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3950	.9700	.0000	-.2450	-.2390	-.0410			-.1650		-.2200	.1800	.0790	-.0150	-.0720
20.000			.1910	-.3010	-.2190	-.0770			-.1630		-.2070				
40.000			.3540	-.2900	-.1670	-.0920			-.1430		-.1660	.0660	.0130	-.0480	-.0630
55.000			.4190	-.1850	-.1280	-.0500			-.0490		-.0560				
70.000			.4100	-.1900	-.1360	-.0170			.0580		-.0640	-.3450	-.2560	-.1940	-.1500
90.000		.9490	.3300	-.1950	-.1190	.0370			.1480		-.1270	-.4320	-.3080	-.2140	-.1510
120.000			.2130	-.1930	-.0750	.3410			.2340		-.2620	-.4740	-.4260	-.2150	-.1170
142.000										-.4850					
150.000			.1610	-.2220	-.0180	.6330			.4120		-.4470	-.5000	-.3760	-.2010	-.0620
157.000								.6800							
162.000									.2920						
165.000											-.6710	-.4220	-.3690	-.2200	-.0520
169.000									.2370						
172.000							.9680								
180.000	1.3950	.7140	.0510	-.1530	-.0010	.7770			.4850		-.6230	-.5470	-.3160	-.2680	-.0460

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1710							.0060		-.0490
40.000	.1290	.2240		.0790	.0250	-.3140	-.1770			-.1220
70.000		-.1220	-.2090	-.2310	-.1230	-.1370	-.2140	-.2630		
90.000		-.0710	- 1500	-.0290	-.1340	-.1750	-.2430	-.2540		
105.000				.0370	-.0670	-.1870	-.2540	-.2620		
110.000									-.2840	
120.000		-.0570	.0710	.2680	-.0240	-.2930	-.2490	-.1950	-.2440	
135.000				.3790	.2130	-.2470	-.1720	-.1610		
150.000		-.0450	.1300	.2550	.2080	-.1050	-.1240	-.1790		
165.000		-.0420		.2630	.2530	.0020	-.0830	-.2990		
180.000		-.0400	.0870	.2320						

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3920	.9740	.0000	-.4120	-.2960	-.0460			-.1430		-.2280	.1770	.0800	-.0220	.020
30.000			.1590	-.4580	-.3120	-.0950			-.1640		-.2450				
40.000			.2210	-.3860	-.2850	-.1290			-.1780		-.2010	-.1660	-.1060	-.0610	-.0310
55.000			.2310	-.3390	-.2860	-.0970			-.1770		-.1760				
70.000			.2080	-.3170	-.3060	-.0660			-.1670		-.1550	-.2180	-.1310	-.0410	-.0170
90.000		.7830	.1530	-.2470	-.2820	-.0660			-.1350		-.1310	-.2410	-.1760	-.0610	-.0240
120.000			.0830	-.1710	-.2420	-.0720			-.1230		-.1230	-.2610	-.2150	-.0810	-.0310

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB20)

MACH (2) = 1.245 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5570					
150.000			.0770	-.2710	-.0900	.5600			.3240		-.5250	-.5200	-.3770	-.2180	-.0580
157.000								.5580							
162.000									.1920						
165.000											-.6920	-.5000	-.3210	-.2690	-.0670
169.000									.2130						
172.000							.9000								
180.000	1.3820	.6980	.0230	-.1710	-.0120	.7360			.4490		-.6230	-.4900	-.3800	-.2910	-.2040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2420							.0070		-.0790
40.000	.1510	.0390		-.0120	-.0180	-.2420	-.1590			-.1660
70.000		-.0960	-.2000	-.1870	-.1030	-.1750	-.2070	-.2250		
90.000		-.0490	-.1220	-.0510	-.1690	-.1790	-.2340	-.2240		
105.000				-.0040	-.1340	-.1980	-.2210	-.2430		
110.000									-.2870	
120.000		-.0260	.0420	.1510	-.1090	-.3400	-.2270	-.2060	-.2710	
135.000				.5520	.2290	-.2820	-.2110	-.2230		
150.000		-.0330	.1140	.3360	.2900	-.1200	-.1920	-.2160		
165.000		-.0490		.3490	.3350	-.0320	-.1320	-.3390		
180.000		-.0850	.0480	.1860						

MACH (2) = 1.245 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3270	.9680	.0000	-.3390	-.1680	-.1700			-.1470		-.1930	-.1130	-.0580	-.0010	-.1690
20.000			.1530	-.4220	-.2160	-.1730			-.1740		-.2860				
40.000			.1060	-.4200	-.3630	-.1870			-.2110		-.2000	-.0570	-.1170	-.1890	-.0750
55.000			.0760	-.4440	-.4140	-.1260			-.0610		-.1640				
70.000			.0270	-.4610	-.4360	-.0400			.0280		-.2170	-.4620	-.3930	-.2990	-.0450
90.000		.6090	-.0200	-.4620	-.4160	.1130			.0560		-.2820	-.5470	-.4780	-.2150	-.0180
120.000			-.0600	-.3960	-.3230	.2500			-.0160		-.4070	-.5930	-.5190	-.1340	-.0550
142.000										-.6280					
150.000			-.0390	-.3200	-.1550	.3910			.1020		-.6420	-.5440	-.3570	-.3280	-.0330
157.000								.4120							
162.000									.1030						
165.000											-.6950	-.5620	-.3700	-.3870	-.1690
169.000									.1790						
172.000							.7680								

AMES 11-707 IA9 O2A + 53 + 79 ORBITER FUSELAGE (RBMB28)

MACH (2) = 1.245 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0003	.0075	.0188	.0339	.0602	.1355	.1706	.1581	.1732	.1958	.2259	.2711	.3200	.3933	.5120
PHI															
180.000	1.3270	.6540	-.0170	-.1980	.0170	.5970			.4020		-.5590	-.4580	-.5170	-.5530	-.3200
X/LB	.5873	.6626	.7380	.7869	.8283	.8846	.9262	.9639	0015	1.0392					
PHI															
.000	.2300							.0160		-.0590					
40.000	.1300	-.1180		-.1420	-.1710	-.1700	-.1570			-.2320					
70.000		-.0840	-.2010	-.1510	-.0610	-.1700	-.2540	-.3100							
90.000		-.0270	-.1230	-.0280	-.1670	-.1880	-.2710	-.2910							
105.000				.0210	-.1470	-.2100	-.2730	-.3120							
110.000									-.3370						
120.000		-.0080	-.0030	.2500	-.1470	-.3910	-.2930	-.2600	-.3270						
135.000				.6120	.2630	-.2970	-.2620	-.3080							
150.000		-.0320	.0420	.2310	.0740	-.2260	-.2960	-.3460							
165.000		-.0210		.2820	.2890	-.1200	-.2070	-.3920							
180.000		-.0180	.0170	.1620											

AMES 11-70/ IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB29) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDDLR = .000

MACH (1) = 1.098 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2480	.7570	.0000	-.5760	-.3100	-.1400			-.1370		-.2120	-.0240	-.1910	-.1640	-.0170
20.000			.2630	-.4000	-.3110	-.1010			-.0540		-.1270				
40.000			.5560	-.1120	-.0220	-.1950			.0330		-.0760	.0170	.0030	-.0060	.1300
55.000			.6550	.0570	.1400	.0920			.2540		.2440				
70.000			.6330	.0620	.0960	.1740			.2730		.2180	-.3160	-.2210	-.1200	-.0950
90.000		1.1080	.5070	-.0510	.1300	.2480			.3120		.2590	-.4160	-.2520	-.2040	-.2020
120.000			.2860	-.1670	.0690	.3780			.4600		-.1330	-.5050	-.5080	-.3110	-.3230
142.000										-.2790					
150.000			.1160	-.3220	.0530	.6020			.3770		-.5160	-.4740	-.4500	-.3120	-.1880
157.000								.6840							
162.000									.2730						
165.000											-.4900	-.3570	-.4190	-.2640	-.1540
169.000									.0490						
172.000							.6320								
180.000	1.2480	.5830	-.1280	-.3460	-.0490	.6170			.3280		-.9100	-.5940	-.7860	-.6300	-.2280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							.0490		-.0750
40.000	.3220	.4450		.2580	.0730	-.3890	-.2890			-.1100
70.000		-.0940	-.3200	-.4080	-.0310	-.0160	-.1450	-.0390		
90.000		-.0670	-.2800	-.0230	-.1930	.0020	-.1510	-.1010		
105.000				.0310	-.0710	-.0150	-.1590	-.1430		
110.000									-.1650	
120.000		-.1280	-.2480	.5220	-.0150	-.1660	-.1740	-.0930	-.0400	
135.000				.2350	.0220	-.4520	-.1870	-.0240		
150.000		-.0200	.0370	.1050	-.0720	-.2620	-.0520	-.0400		
165.000		-.0140		.1590	.1570	-.1460	-.0700	-.2930		
180.000		-.0150	.0380	.1470						

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB29)

MACH (1) = 1.096 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3070	.7570	.0000	-.4980	-.1580	-.1590			.0690		[illegible]	-.0030	-.0550	-.1000	.0400
20.000			.1120	-.5090	-.2620	-.1680			.0820		.0180				
40.000			.3920	-.2890	-.1530	-.1450			.1190		.0240	-.0020	-.0290	-.0480	.1020
55.000			.4880	-.1410	-.0370	-.0260			.2340		.1140				
70.000			.4760	-.1400	-.0730	.1220			.2490		.0660	-.3420	-.2950	-.1980	-.1610
90.000		1.0040	.3680	-.1980	-.0610	.2160			.2730		-.0040	-.4450	-.3310	-.2630	-.2240
120.000			.1970	-.2630	-.0680	.3620			.3510		-.1990	-.5230	-.5010	-.3200	-.1960
142.000										-.4210					
150.000			.0840	-.3600	-.0470	.6120			.3580		-.5230	-.5300	-.4400	-.2490	-.1150
157.000								.6580							
162.000									.2410						
165.000											-.7120	-.3980	-.4150	-.2090	-.1060
169.000									.0890						
172.000							.8780								
180.000	1.3070	.6080	-.0950	-.3190	-.1240	.6980			.3750		-.8550	-.5860	-.4310	-.2860	-.1340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1840							.0040		-.0860
40.000	.2490	.3380		.1640	-.0080	-.4050	-.1870			-.1090
70.000		-.0820	-.3290	-.3540	-.1170	-.0590	-.1310	-.0240		
90.000		-.0570	-.2830	-.0480	-.2180	-.1040	-.1460	-.0380		
105.000				.0350	-.1270	-.1830	-.1780	-.0790		
110.000									-.1990	
120.000		-.0790	-.1250	.4230	-.0940	-.3490	-.1470	-.0300	-.0760	
135.000				.3470	.0640	-.3950	-.2420	-.0140		
150.000		.0030	.0940	.1740	.0260	-.2490	-.1490	-.1340		
165.000		.0080		.2070	.1900	-.1560	-.1460	-.3420		
180.000		.0350	.0720	.1950						

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.7370	.0000	-.4060	-.1140	-.0120			.0900		.0610	.0170	-.0180	-.0450	.0700
20.000			-.0340	-.4630	-.0440	-.0410			.0920		.0460				
40.000			.1950	-.4480	-.0490	-.1020			.1350		.0220	-.0330	-.0640	-.0870	-.0200
55.000			.2930	-.3300	-.1570	-.0740			.2080		.1660				
70.000			.2870	-.4310	-.2320	.0320			.2130		.0440	-.0110	-.1370	-.1060	-.0310
90.000		.8640	.2760	-.3470	-.2350	.1450			.2180		-.0160	-.0360	-.0710	-.0450	-.0160
120.000			.1900	-.3540	-.1980	.3060			.2260		.0000	-.0230	-.0770	-.0440	-.0150

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB29)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6690					
150.000			.0300	-.3860	-.1030	.5720			.3020		-.5850	-.5690	-.4380	-.1880	-.0580
157.000								.5670							
162.000									.1680						
165.000											-.8790	-.4870	-.3530	-.1810	-.0520
169.000									.1030						
172.000							.8680								
180.000	1.3210	.6370	-.0850	-.2990	-.1040	.7400			.3860		-.8460	-.6310	-.3110	-.2010	-.0480

X/LB	.5973	.66 4	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							-.0040		-.0260
40.000	.1690	.2030		.0670	-.0760	-.1350	-.1380			-.1220
70.000		-.1140	-.3340	-.2920	-.1140	-.2100	-.2750	-.0130		
90.000		-.0860	-.2560	-.0920	-.2190	-.1940	-.3250	.0080		
105.000				-.0110	-.1630	-.2400	-.3440	-.1130		
110.000									-.1850	
120.000		-.0380	.0660	.2560	-.1480	-.3970	-.2600	-.2550	-.0870	
135.000				.3650	.1290	-.3470	-.2710	-.2310		
150.000		.0040	.1220	.2570	.1610	-.2120	-.2380	-.2870		
165.000		.0170		.2520	.2460	-.1170	-.1690	-.3940		
180.000		.0320	.0860	.1990						

MACH (1) = 1.098 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2890	.7720	.0000	-.4870	-.1770	-.1620			.0860		.0340	.0000	-.0530	-.0450	.0420
20.000			-.0730	-.4840	-.1540	-.1760			.0840		.0220				
40.000			.0370	-.5290	-.0790	-.1780			.1080		-.0030	-.0740	-.1350	-.1640	.0170
55.000			.0790	-.5140	-.2920	-.1810			.1550		-.0010				
70.000			.0730	-.5070	-.4050	-.0800			.1650		-.0690	-.4570	-.4440	-.3650	-.0440
90.000		.6880	.0270	-.5040	-.4080	.0230			.1460		-.1690	-.5500	-.4850	-.3260	-.0530
120.000			-.0400	-.4610	-.3400	.2040			.0570		-.2900	-.6290	-.5550	-.2050	-.0350
142.000										-.7700					
150.000			-.0480	-.4320	-.2020	.4850			.2000		-.6930	-.6210	-.3350	-.1940	-.0430
157.000								.4350							
162.000									.0600						
165.000											-.9200	-.5840	-.3070	-.2010	-.0560
169.000									.0850						
172.000							.8050								

AMES 11-70T IA9 30A + SS + T9 ORBITER FUSELAGE (R8W329)

MACH (1) = 1.098 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2690	.6260	-.0970	-.3180	-.1210	.7010			.3580		-.8450	-.5900	-.4090	-.2620	-.1350
X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1890							-.0140		-.0680					
10.000	.1250	.0060		-.0090	-.1250	-.1580	-.1410			-.1770					
70.000		-.0950	-.2510	-.1720	-.0940	-.2370	-.3520	-.2240							
90.000		-.0270	-.1220	-.0910	-.1610	-.2550	-.3650	-.3710							
105.000				-.0400	-.1780	-.2550	-.3700	-.3880							
110.000									-.4040						
120.000		.0070	.0660	.0880	-.2230	-.3840	-.3130	-.3470	-.4070						
130.000				.5040	.1530	-.4040	-.3290	-.3150							
150.000		.0600	.1530	.3940	.2060	-.2400	-.3220	-.3440							
160.000		.0650		.3520	.2940	-.1640	-.2540	-.4150							
180.000		.0400	.0780	.1920											

MACH (1) = 1.098 BETAT (5) = 5.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2350	.7500	.0000	-.5890	-.3260	-.1400			-.1370		.0350	-.0370	-.1070	-.0700	.0300
20.000			-.1240	-.6740	-.1890	-.2090			-.1460		.0080				
40.000			-.1390	-.6760	-.2450	-.2660			.0500		-.0910	-.1880	-.2720	-.9830	.1010
60.000			-.1370	-.6820	-.4970	-.1790			.0600		-.0680				
75.000			-.1640	-.6770	-.5970	-.0580			.0330		-.1470	-.5220	-.5110	-.4360	-.0280
90.000		.4750	-.1870	-.6590	-.5820	.0280			-.0420		-.2770	-.6070	-.5550	-.3000	.0610
120.000			-.2000	-.5760	-.4830	.1510			-.1160		-.3470	-.7040	-.5610	-.2390	.0170
142.000										-.8440					
150.000			-.1690	-.4960	-.2690	.3650			.0740		-.4020	-.7300	-.4007	[illegible]	[illegible]
157.000								.2850							
162.000									-.0370						
165.000											-.9330	-.7170	[illegible]	-.3137	.0600
169.000									.0500						
172.000							.6750								
180.000	.2350	.0870	-.1460	-.3510	-.0760	.5300			.3050		-.1150	-.5120	-.0811	-.7011	.46
X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1780							.0170		-.0750					
30.000	.0930	.0080		-.1830	-.1431	-.1830	-.1710			-.2140					

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM829)

MACH (1) = 1.098 BETAT (5) = 8.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1020	-.2690	-.1650	-.0840	-.2580	-.3430	-.3730		
90.000		-.0460	-.1740	-.0960	-.1990	-.2510	-.3640	-.3720		
105.000				-.0440	-.2400	-.2660	-.3720	-.3790		
110.000									-.4370	
120.000		.0120	-.0200	.1180	-.2680	-.4400	-.3310	-.3580	-.4250	
135.000				.5910	.1690	-.4140	-.3620	-.3470		
150.000		.0220	.0380	.2510	.0130	-.3210	-.4240	-.4430		
165.000		.0320		.2830	.2400	-.3000	-.3410	-.4530		
180.000		-.0210	.0190	.1400						

MACH (2) = 1.247 BETAT (1) = -8.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3959	.5120
PHI															
.000	1.3190	.9480	.0000	-.3530	-.2270	-.1040			-.1490		-.1910	-.1640	-.1600	.0320	-.1240
20.000			.4610	-.1910	-.1880	-.1440			-.1090		-.1020				
40.000			.7180	.0830	.0820	-.1060			-.2020		.0440	.0310	-.0360	.0130	.0830
55.000			.7990	.2300	.2230	.1010			.0390		.1670				
70.000			.7700	.2250	.1900	.1050			.1550		.1430	-.1890	-.1850	-.0680	-.0590
90.000		1.1890	.6290	.1180	.1930	.1110			.3180		.0790	-.2700	-.2460	-.1480	-.1320
120.000			.3820	-.0260	.1230	.1310			.4940		-.1000	-.3700	-.3810	-.2470	-.2520
142.000										-.1660					
150.000			.2140	-.1870	.0340	.5920			.4820		-.4090	-.3890	-.3310	-.2750	-.2000
157.000								.8100							
162.000									.3860						
165.000											-.4040	-.2760	-.3070	-.2380	-.1510
169.000									.1720						
172.000							.9150								
180.000	1.3190	.6560	-.0180	-.2250	-.0610	.5070			.4060		-.6920	-.5210	-.5720	-.5580	-.2680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2130							.0700		-.0570
40.000	.3070	.4590		.3210	.1650	-.2220	-.4050			.0300
70.000		-.0760	-.2620	-.3530	-.1350	-.1280	-.1840	-.0810		
90.000		-.0910	-.2430	-.0540	-.1700	-.1420	-.1980	-.2300		
105.000				.0560	.0350	-.1400	-.2490	-.2700		
110.000									-.2240	
120.000		-.1971	-.2340	.5830	.0890	-.1980	-.2490	-.2520	-.1920	
135.000				.2020	.0730	-.3650	-.2480	-.1050		
150.000		-.0670	.0210	.1150	-.0060	-.1810	-.0470	-.0690		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB29)

MACH (2) = 1.247 BETAT (1) = -8.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0570		.1420	.1700	-.0520	-.0220	-.2350		
180.000		-.0680	.0190	.1580						

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3740	.9610	.0000	-.4000	-.2730	-.0310			-.1480		-.2530	.1820	.1110	-.0310	-.0910
20.000			.3660	-.2960	-.2720	-.0190			-.1320		-.1840				
40.000			.5850	-.0690	-.0290	.0090			-.1140		.0150	-.0260	.0990	.0220	.0190
55.000			.6470	.0490	.0810	-.0050			-.0110		.0380				
70.000			.6150	.0310	.0370	-.0040			.1510		.0020	-.2340	-.2230	-.1130	-.1330
90.000		1.0390	.4900	-.0410	.0490	.0220			.2530		-.0380	-.3060	-.3130	-.1800	-.1810
120.000			.2930	-.1260	.0160	.2110			.3530		-.1800	-.4220	-.3830	-.2520	-.2110
142.000										-.3450					
150.000			.1780	-.2230	-.0140	.6140			.4550		-.4130	-.4740	-.3620	-.2620	-.1200
157.000								.7910							
162.000									.3500						
165.000											-.6080	-.3560	-.3500	-.2350	-.1000
169.000									.2100						
172.000							.9480								
180.000	1.3740	.6970	.0000	-.2020	-.0610	.6360			.4590		-.6510	-.4680	-.4080	-.3280	-.1810

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2280							.0380		-.0640
40.000	.2510	.3823		.2410	.1110	-.2610	-.1810			-.0510
70.000		-.1270	-.2430	-.3290	-.1350	-.1360	-.2050	-.2380		
90.000		-.1040	-.1980	-.0300	-.1620	-.1750	-.2330	-.2540		
105.000				.0740	-.0220	-.1740	-.2700	-.2720		
113.000									-.2810	
120.000		-.0970	-.1350	.4790	.0310	-.2440	-.2630	-.2340	-.2190	
135.000				.5090	.1300	-.3040	-.1850	-.1190		
157.000		.1540	.0710	.1460	.0670	-.1610	-.0760	-.1110		
165.000		-.1540		.1825	.2120	-.0520	-.0590	-.2600		
180.000		-.0510	.0510	.1880						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB29)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3890	.9350	.0000	-.2380	-.2400	-.0220			-.1380		-.2350	.1860	.0850	.0180	-.0190
20.000			.1400	-.2900	-.1960	-.0630			-.1450		-.2250				
40.000			.3450	-.2970	-.1390	-.0830			-.1370		-.1770	.1000	.0320	-.0150	-.0110
55.000			.4200	-.1790	-.1070	-.0640			-.0830		-.0740				
70.000			.4150	-.1680	-.1330	-.0350			.0650		-.0640	-.2880	-.2360	-.1960	-.1770
90.000		.9480	.3260	-.1960	-.1190	-.0020			.1550		-.1240	-.4420	-.2800	-.2340	-.1780
120.000			.1900	-.2120	-.0940	.3020			.2060		-.2670	-.4810	-.4380	-.2440	-.1320
142.000										-.4830					
150.000			.1260	-.2490	.0590	.6010			.4070		-.4590	-.5200	-.4000	-.1920	-.0640
157.000								.6950							
162.000									.2850						
165.000											-.6790	-.4390	-.3830	-.1870	-.0530
169.000									.2240						
172.000							.9610								
180.000	1.3890	.7200	.0120	-.1860	-.0410	.7230			.4710		-.6370	-.5640	-.3230	-.2700	-.0440

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1840							.0080		-.0370
40.000	.1450	.2350		.1220	.0260	-.3140	-.1500			-.1110
70.000		-.1350	-.2280	-.2720	-.1630	-.1470	-.2210	-.2780		
90.000		-.0740	-.1690	-.0480	-.1590	-.2200	-.2580	-.2760		
105.000				.0270	-.0770	-.2200	-.2960	-.2850		
110.000									-.2980	
120.000		-.0570	.0730	.2710	-.0270	-.3020	-.2660	-.2360	-.2560	
135.000				.3290	.1800	-.2640	-.1830	-.1730		
150.000		-.0360	.1230	.2270	.1800	-.1140	-.1410	-.1930		
165.000		-.0290		.2300	.2270	-.0050	-.0830	-.2990		
180.000		-.0310	.0940	.1990						

MACH (2) = 1.249 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3740	.9650	.0000	-.3420	-.2620	-.0290			-.1460		-.2260	.1640	.1030	.0000	-.0380
20.000			.1290	-.3880	-.2440	-.0580			-.1600		-.2680				
40.000			.1980	-.3990	-.2090	-.0970			-.1760		-.1450	.0620	-.0080	-.0790	-.0920
55.000			.2220	-.3470	-.2660	-.1000			-.1010		-.1250				
70.000			.1970	-.3410	-.3070	-.0420			.0140		-.1480	-.3550	-.3000	-.2500	-.1590
90.000		.7740	.1410	-.3470	-.2900	.0360			.0980		-.2110	-.5010	-.3460	-.2640	-.1450
120.000			.0650	-.3160	-.2190	.3120			.1080		-.3470	-.5470	-.4920	-.1750	-.0940

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB29)

MACH (2) = 1.249 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5540					
150.000			.0420	-.2950	-.1250	.5360			.3250		-.5320	-.5450	-.3890	-.1940	-.0570
157.000								.5860							
162.000									.1870						
165.000											-.5980	-.5170	-.3380	-.2490	-.0610
169.000									.2040						
172.000							.9060								
180.000	1.3740	.6700	-.0100	-.2020	-.0570	.6810			.4360		-.6370	-.4920	-.4040	-.3080	-.1970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2300							.0050		-.0700
40.000	.1320	.0250		.0540	-.0780	-.1880	-.1360			-.1620
70.000		-.1180	-.2250	-.2140	-.1330	-.1910	-.2470	-.2340		
90.000		-.0570	-.1450	-.0650	-.2000	-.2130	-.2440	-.2400		
105.000				-.0220	-.1370	-.2140	-.2360	-.2630		
110.000									-.3090	
120.000		-.0260	.0140	.1170	-.1050	-.3550	-.2500	-.2190	-.2800	
135.000				.5440	.2280	-.2910	-.2020	-.2270		
150.000		-.0160	.0890	.3280	.2720	-.1260	-.2020	-.2160		
165.000		-.0270		.3350	.3230	-.0330	-.1350	-.3490		
180.000		-.0630	.0470	.1840						

MACH (2) = 1.246 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3130	.9340	.0000	-.3830	-.2650	-.1200			-.1400		-.1980	-.1190	.0100	.0380	-.1250
20.000			.0780	-.4770	-.3280	-.0540			-.2030		-.2720				
40.000			.0530	-.4830	-.4080	-.1720			-.2460		-.1820	.0160	-.1490	-.1380	-.0650
55.000			.0320	-.4830	-.4500	-.1440			-.0960		-.1640				
70.000			-.0030	-.4870	-.4660	-.0400			-.0010		-.2090	-.4380	-.3520	-.3110	-.0190
90.000		.5860	-.0490	-.4810	-.4420	.1120			.0520		-.2790	-.5470	-.4110	-.2490	-.0320
120.000			-.0840	-.4150	-.3460	.2560			-.0270		-.4030	-.5980	-.5360	-.1790	-.0480
142.000										-.6200					
150.000			-.0630	-.3470	-.2060	.3310			.2040		-.6450	-.5600	-.3760	-.3030	-.0860
157.000								.4640							
162.000									.1050						
165.000											-.7050	-.5740	-.3770	-.3870	-.1380
169.000									.1720						
172.000							.8000								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB29)

MACH (2) = 1.246 BETAT (5) = 8.250

SECTION : 1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3130	.6340	-.0390	-.2360	-.0660	.4950			.3830		-.6760	-.4800	-.5720	-.5660	-.2810
X/LB	.5870	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2190							.0140		-.0460					
40.000	.1170	-.1360		-.1410	-.1570	-.1640	-.1470			-.1970					
70.000		-.0910	-.2250	-.1340	-.1060	-.1860	-.2730	-.3270							
90.000		-.0430	-.1460	-.0510	-.1950	-.2110	-.2860	-.3080							
105.000				-.0190	-.1620	-.2240	-.3010	-.3220							
110.000									-.3440						
120.000		-.0110	-.0450	.2500	-.1280	-.3980	-.3150	-.2720	-.3250						
135.000				.6210	.2420	-.3120	-.2660	-.3070							
150.000		-.0290	.0100	.2490	.0970	-.2260	-.2770	-.3210							
165.000		-.0180		.2860	.3160	-.1320	-.2030	-.3910							
180.000		-.0780	.0150	.1550											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (R8MB3C) (04 AUG 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDEF = -15.000 ELEVON = .000
RUDFLF = .000

MACH (1) = 1.101 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.229	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	.7440	.0000	-.4920	-.1370	.0120			.0970		-.0561	-.1420	-.2440	-.3610	-.4240
20.000			.2420	-.3530	-.1720	-.1080			.1190		-.0440				
40.000			.4490	-.1540	.0110	-.1430			-.1750		-.1220	-.1780	-.1880	-.2040	-.1430
55.000			.5450	.0330	.2220	.2150			.1740		.1341				
70.000			.5850	.1150	.3000	.3110			.2330		.1421	-.3170	-.2230	-.0150	-.0050
90.000		1.1230	.5880	.1790	.3630	.3600			.2590		.1491	-.3890	-.3040	-.0240	-.0240
120.000			.5770	.3170	.4630	.5210			.3570		.1191	-.4090	-.2040	-.0640	-.0230
142.000										-.2300					
150.000			.5220	.3540	.4870	.7620			.5290		-.2151	-.2050	-.1990	-.1380	-.0540
157.000								.7920							
162.000									.4530						
165.000											-.3610	-.1700	-.1940	-.1320	-.0500
169.000									.3250						
172.000							.9540								
180.000	1.2620	.8780	.3010	.2660	.3860	.8010			.5700		-.6661	-.3130	-.4200	-.2850	-.2940

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1320							-.0320		-.1615
40.000	.2420	.3600		-.0640	-.1210	-.4320	-.3460			-.1940
70.000		.0920	.0320	.1690	.2230	.0230	.0040	.1280		
90.000		.1060	.1390	.2480	.1870	.0120	-.0320	.1500		
105.000				.3070	.1550	.0040	-.0310	.1270		
110.000									-.1740	
120.000		.0770	.2990	.5440	.0540	-.0380	.0450	.0990	-.0390	
135.000				.5980	.2940	.0910	.1590	.1240		
150.000		.0370	.3160	.3780	.1810	.2180	.2420	.1150		
165.000		.0970		.4350	.3920	.3200	.2900	-.1330		
180.000		-.2220	.1440	.2340						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB30)

MACH (1) = 1.102 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1300	.7720	.0000	-.4970	-.2640	.1800			.1030		-.0100	-.1200	-.2110	-.3290	-.1450
20.000			.2050	-.3970	-.1480	.1620			.1010		-.0250				
40.000			.3360	-.2800	.0010	.0740			.0160		-.1160	-.1640	-.1980	-.2510	-.1610
55.000			.3920	-.1930	.1380	.2100			.1470		-.0010				
70.000			.4130	-.1350	.1810	.2590			.1760		-.0280	-.3710	-.3150	-.0730	-.0210
90.000		.9970	.4110	-.0570	.2560	.2830			.1780		-.0640	-.4360	-.3770	-.0850	-.0420
120.000			.4490	.1760	.3710	.4330			.2180		-.0560	-.4570	-.2380	-.1070	-.0390
142.000										-.5280					
150.000			.4580	.2062	.4610	.7260			.4800		-.3070	-.2280	-.2190	-.1360	-.0480
157.000								.7260							
162.000									.4030						
165.000											-.6430	-.2180	-.2260	-.1360	-.0600
169.000									.3470						
172.000							.9820								
180.000	1.3000	.9170	.3340	.3185	.4420	.8610			.6090		-.6730	-.3490	-.2640	-.1620	-.1040

X/LB	.3873	.6625	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1870							-.0430		-.1400
40.000	.2060	.2710		-.1740	-.2420	-.4650	-.3290			-.2320
75.000		.0890	.1320	.1440	.1540	-.0300	-.0940	.0040		
90.000		.1050	.1950	.2000	.1060	-.0350	-.0960	-.0060		
103.000				.2380	.0340	-.0380	-.0850	-.0470		
110.000									-.2410	
120.000		.0910	.3480	.4310	-.0580	-.0970	.0130	-.0480	-.1550	
135.000				.7090	.3130	-.0740	.0760	.0250		
150.000		.0600	.3760	.4700	.3110	.0770	.1490	.0320		
165.000		.0530		.4930	.4630	.1960	.1860	-.1960		
180.000		-.0170	.3170	.4170						

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.7780	.0000	-.4990	-.2420	.1930			.1230		-.0070	-.1250	-.2070	-.2740	.0460
20.000			.1550	-.4480	-.2900	.1820			.1190		-.0220				
40.000			.2170	-.3790	-.1560	.1380			.0690		-.0980	-.1840	-.2470	-.2980	-.0400
55.000			.2380	-.3550	.1350	.1820			.1010		-.0810				
70.000			.2450	-.3420	.1700	.2070			.1100		-.1470	-.4410	-.4000	-.1120	-.0460
90.000		.8540	.2430	-.2800	.1770	.2020			.0870		-.1820	-.5010	-.4490	-.1170	-.0620
120.000			.3140	.0060	.2610	.3190			.0700		-.2220	-.5280	-.2920	-.1560	-.0660

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM830)

MACH (1) = 1.102 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6340					
150.000			.3840	.2300	.4030	.6510			.4050		-.4250	-.3270	-.2030	-.1560	-.0620
157.000								.6130							
162.000									.3140						
165.000											-.7460	-.2930	-.1670	-.1330	-.0640
169.000									.3390						
172.000							.9630								
180.000	1.3090	.9300	.3420	.3230	.4660	.8770			.6220		-.6620	-.4940	-.1730	-.1330	-.0560

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							-.0120		-.1480
40.000	.1460	.1460		-.2780	-.2790	-.3510	-.3180			-.2560
70.000		.1080	.1490	.1190	.0980	-.0870	-.1610	-.0880		
90.000		.1230	.2120	.1520	.0390	-.1040	-.1530	-.1050		
105.000				.1530	-.0470	-.1090	-.1410	-.1390		
110.000									-.3110	
120.000		.1090	.3430	.2590	-.1820	-.1840	-.1050	-.1300	-.2480	
135.000				.7450	.2750	-.2410	-.0740	-.0880		
150.000		.0650	.3850	.5670	.4000	-.0310	-.0400	-.0670		
165.000		.0460		.5300	.4810	.0660	.0260	-.2950		
180.000		.0060	.3570	.4600						

MACH (1) = 1.100 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2940	.7620	.0000	-.5260	-.2550	.1800			.1060		-.0110	-.1260	-.2250	-.3040	-.0770
20.000			.0870	-.5050	-.3290	.1730			.1020		-.0420				
40.000			.0920	-.4790	-.3190	.1600			.0800		-.1060	-.2250	-.3040	-.3780	-.0920
55.000			.0780	-.4950	-.2540	.1500			.0600		-.1420				
70.000			.0680	-.4960	-.0420	.1520			.0480		-.2350	-.5110	-.4700	-.1360	-.0690
90.000		.6980	.0740	-.4340	-.0720	.1160			-.0020		-.3010	-.5710	-.5050	-.1610	-.0990
120.000			.1700	-.1670	.0730	.1790			-.0840		-.3820	-.6040	-.3830	-.2410	-.1070
142.000										-.7250					
150.000			.2990	.1290	.2940	.5370			.3060		-.6190	-.4410	-.2110	-.1960	-.0920
157.000								.4620							
162.000									.1980						
165.000											-.7920	-.4370	-.167	-.0920	-.1570
169.000									.3030						
172.000							.9010								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB30)

MACH (1) = 1.100 BETAY (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2940	.9230	.3360	.3080	.4400	.8500			.5960		-.6580	-.3480	-.2410	-.1690	-.1120
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1867							-.0290		-.1540					
40.000	.1210	-.0390		-.2570	-.2290	-.2550	-.2510			-.2700					
70.000		.1430	.1620	.0880	.0670	-.1510	-.2150	-.1640							
90.000		.1520	.2130	.1230	.0010	-.1740	-.2010	-.1840							
105.000				.0880	-.1480	-.1800	-.1980	-.2050							
110.000									-.3550						
120.000		.1610	.3150	.1050	-.3060	-.3040	-.1980	-.2130	-.3190						
135.000				.7130	.2090	-.3940	-.3710	-.2410							
150.000		.0990	.3530	.4880	.4180	-.0640	-.1550	-.2390							
165.000		.0230		.4810	.4470	-.0340	-.0960	-.3850							
180.000		-.0100	.3160	.4100											

MACH (1) = 1.102 BETAT (5) = 8.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
000	1.2500	.7340	.0000	-.4940	-.1390	-.0220			.1110		-.1280	-.1390	-.2460	-.3020	-.4110
20.000			.0230	-.5390	-.2010	.1600			.0910		-.2770				
40.000			-.0340	-.5680	-.4310	.1640			.0750		-.1560	-.2660	-.3800	-.4720	-.1020
55.000			-.0780	-.6160	-.4260	.1330			.0490		-.1780				
70.000			-.1150	-.6260	-.3910	.0600			.0140		-.2950	-.5600	-.5180	-.1830	-.0800
90.000		.5270	-.0960	-.5640	-.2840	-.0140			-.0660		-.3750	-.6260	-.4870	-.2050	-.0980
120.000			.0200	-.3330	-.1050	.0240			-.2660		-.5020	-.6630	-.3690	-.3220	-.1830
142.000										-.7910					
150.000			.1880	.0100	.1510	.3890			.1520		-.7190	-.4900	-.2930	-.2310	-.2350
157.000								.3050							
162.000									.0890						
165.000											-.5160	-.4350	-.3830	-.3740	-.3170
169.000									.2470						
172.000							.7900								
180.000	1.2500	.8830	.3050	.2640	.3690	.7740			.5380		-.6470	-.3530	-.3930	-.2740	-.2810
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1150							-.0020		-.1830					
40.000	.0710	-.0880		-.2820	-.2930	-.2960	-.2950			-.3160					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBM830)

MACH (1) = 1.102 BETAT (5) = 8.310

SECTION (1)OREITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1430	.1580	.0650	.0460	-.2140	-.2690	-.2460		
90.000		.1280	.1860	.1000	-.0270	-.2100	-.2560	-.2380		
105.000				.0990	-.1660	-.2260	-.2660	-.2660		
110.000									-.3910	
120.000		.1350	.2790	.1220	-.3680	-.3600	-.2960	-.3140	-.3680	
135.000				.4590	.1970	-.4610	-.5330	-.5310		
150.000		-.0850	.2240	.3400	.2890	-.1090	-.2450	-.3330		
165.000		-.0800		.3310	.2920	-.1240	-.2000	-.4090		
180.000		-.1570	.0880	.2290						

MACH (2) = 1.244 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3175	.8550	.0000	-.2910	-.0690	-.2330			-.0250		.1470	.0180	-.1010	-.2120	-.3270
20.000			.4040	-.1550	-.0470	-.2100			.0050		.1400				
40.000			.6010	.0260	.1360	-.2120			-.0650		-.1080	-.0470	-.0520	-.1200	-.1010
55.000			.6900	.1800	.3080	.1470			.2830		.1520				
70.000			.7160	.2250	.3620	.2690			.3320		.1510	-.1890	-.1580	.0410	.044
90.000		1.2040	.6910	.2480	.4060	.3820			.3580		.1120	-.2490	-.2220	.0320	.087
120.000			.6390	.3410	.4810	.5750			.4640		.0990	-.2850	-.2170	-.1190	.018
142.000										-.1210					
150.000			.5620	.3560	.4850	.8260			.6320		-.1590	-.1240	-.1280	-.1190	-.021
157.000								.8790							
162.000									.5570						
165.000											-.3140	-.1120	-.1150	-.1140	-.114
169.000									.4270						
172.000							1.0280								
180.000	1.3170	.9230	.3430	.2900	.3880	.8620			.6550		-.1590	-.0780	-.0970	-.0970	-.018

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3290							.0180		-.1480
40.000	-.0980	.3390		.0230	-.0530	-.2870	-.5550			-.0060
70.000		-.0440	.0010	.0680	.2075	.0780	.3060	.0300		
90.000		-.0290	.0450	.1850	.1380	.0760	-.0230	.0580		
105.000				.2530	.1370	.0760	-.0410	.3560		
110.000									-.0860	
120.000		-.0350	.1220	.5670	.1360	-.0250	.0670	.1180	.0020	
135.000				.5850	.3280	-.1210	.2330	.2130		
150.000		-.0500	.1690	.3100	.1840	.2200	.3170	.207		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM030)

MACH (2) = 1.244 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0320		.3900	.4240	.3520	.3620	-.0150		
180.000		-.2770	-.0380	.1120						

MACH (2) = 1.245 BETAT (2) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	.9190	.0000	-.2830	-.1040	-.0610			.2780		[illegible]	.0260	-.0830	-.2020	-.2800
20.000			.3600	-.2020	-.0670	-.1220			.2290		[illegible]				
40.000			.4870	-.0890	.0960	-.1870			-.0080		[illegible]	-.0170	-.0690	-.1560	-.1740
55.000			.5360	-.0170	.2780	.0850			.1480		[illegible]				
70.000			.5450	.0030	.3160	.2130			.2120		[illegible]	-.2140	-.1810	-.0260	.0050
90.000		1.0830	.5230	.0230	.3550	.2970			.2030		[illegible]	[illegible]	-.2440	-.0330	-.0080
120.000			.5210	.1740	.4180	.4980			.3090		[illegible]	-.3220	-.1520	-.0710	-.0100
142.000										-.3610					
150.000			.5090	.2920	.4760	.7990			.5860		[illegible]	-.1760	-.1430	-.0960	-.0170
157.000								.8210							
162.000									.5090						
165.000											[illegible]	-.1560	-.1490	-.0880	-.0230
169.000									.4510						
172.000							1.0610								
180.000	1.3630	.9600	.3700	.3010	.4470	.9290			.6940		[illegible]	-.2990	-.2310	-.1260	-.0740

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1890							-.0070		-.1340
40.000	-.1440	.2440		-.0640	-.1750	-.3130	-.3100			-.0530
70.000		-.0870	.0160	.0860	.1550	.0260	-.0440	.0050		
90.000		-.0590	.0610	.1530	.0950	.0250	-.0610	.0150		
105.000				.1870	.0580	.0230	-.0650	.0020		
110.000									-.1240	
120.000		-.0280	.1690	.4510	.0340	-.1010	.0200	0470	-.0640	
135.000				.7130	.3580	-.0760	.1060	.1100		
150.000		-.0160	.1790	.3750	.3220	.1300	.1760	.1120		
165.000		-.0150		.4320	.5150	.2550	.2260	-.1000		
180.000		-.0450	.1070	.3180						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE RBM830)

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.195[illegible]	.[illegible]	[illegible]11	.3200	.3953	.5120
PHI															
.000	1.3660	.9040	.0000	-.2980	-.0830	.1210			.2540		-.[illegible]	[illegible]330	-.0620	-.1720	-.2600
20.000			.2990	-.2550	-.1130	.1210			.2190		-.[illegible]				
40.000			.3580	-.1930	-.0420	-.1440			.1020		-.[illegible]	[illegible]120	-.1000	-.1690	-.1980
55.000			.3750	-.1740	.0130	.0550			.1760		-.[illegible]				
70.000			.3770	-.1740	.1190	.1700			.0780		-.[illegible]	[illegible]650	-.2470	-.0850	-.0170
90.000		.9380	.3600	-.1370	.2490	.2300			.1180		-.[illegible]	[illegible]220	-.3090	-.0860	-.0280
120.000			.3930	-.0070	.2950	.4050			.1780		-.[illegible]	[illegible]810	-.2140	-.1170	-.0340
142.000										-.442[illegible]					
150.000			.4370	.1900	.4250	.7290			.5090		-.[illegible]	[illegible]470	-.1850	-.1100	-.0330
157.000								.7120							
162.000									.4190						
165.000											-.[illegible]	[illegible]210	-.1660	-.0930	-.0360
169.000									.4390						
172.000							1.0380								
180.000	1.3660	.9680	.3810	.2960	.4770	.9410			.7000		-.[illegible]	[illegible]670	-.1440	-.0890	-.0280

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.039[illegible]
PHI										
.000	-.1200							.0190		-.144[illegible]
40.000	-.1520	.1240		-.1590	-.2210	-.3540	-.2940			-.191[illegible]
70.000		-.1050	.0340	.0960	.1170	-.0220	-.0810	-.0290		
90.000		-.0750	.0840	.1270	.0710	-.0230	-.0870	-.0430		
105.000				.1270	.0080	-.0230	-.0890	-.0580		
110.000									-.1790	
120.000		-.0500	.1740	.3000	-.0730	-.1810	-.0450	-.0480	-.1290	
135.000				.7080	.3450	-.1460	-.0870	-.0290		
150.000		-.0210	.1040	.4110	.4620	.0650	.0280	-.0200		
165.000		-.0200		.4830	.5830	.1690	.1130	-.2080		
180.000		-.0140	.0040	.4280						

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.195[illegible]	.[illegible]	[illegible]11	.3200	.3953	.5120
PHI															
.000	1.3600	.8880	.0000	-.2860	-.1200	-.0370			.2860			[illegible]50	-.0790	-.1880	-.2890
20.000			.2440	-.3000	-.1570	.0350			.2750						
40.000			.2330	-.2880	-.1570	.0450			.2070			[illegible]40	-.1620	-.2500	-.2410
55.000			.2110	-.3140	-.1830	.0490			.1000						
70.000			.1930	-.3210	-.2080	.1470			.0480		-	[illegible]40	-.3290	-.1170	-.0340
90.000		.7820	.1940	-.2770	-.1030	.1760			.0490			[illegible]40	-.3740	-.1140	-.0420
120.000			.2610	-.1360	.1240	.294[illegible]			.0450			[illegible]30	-.2770	-.1900	-.0700

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB30)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
142.000										-.5170					
150.000			.3600	.1150	.3140	.6300			.4190		[illegible]	-.3390	-.1910	-.1270	-.0450
157.000								.5720							
162.000									.3170						
165.000											[illegible]	-.3440	-.1360	-.1410	-.1270
169.000									.4160						
172.000							.9820								
180.000	1.3600	.9680	.3780	.3000	.4420	.9220			.6820		[illegible]	-.3380	-.2080	-.1240	-.0710

X/LB	.5873	.6526	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0830							.0120		-.1430
40.000	.0020	.0020		-.2130	-.2310	-.2620	-.2180			-.2310
70.000		-.1130	.0630	.0970	.1040	-.0610	-.1210	-.0840		
90.000		-.0840	.1010	.1030	.0560	-.0730	-.1260	-.0920		
105.000				.0860	-.0790	-.0830	-.1270	-.1070		
110.000									-.2210	
120.000		-.0830	.1340	.1440	-.1910	-.2760	-.1230	-.1310	-.1810	
135.000				.6750	.3100	-.2550	-.2630	-.2630		
150.000		-.0400	.1010	.2690	.3830	.0600	-.0500	-.1440		
165.000		-.0900		.2800	.4350	.0970	.0020	-.2770		
180.000		-.0470	.1170	.3200						

MACH (2) = 1.247 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.8740	.0000	-.2740	-.0600	-.2500			-.0130		[illegible]	.3620	-.0710	-.1750	-.3270
20.000			.1740	-.3390	-.1350	-.2480			.1940		[illegible]				
40.000			.1010	-.3800	-.2910	-.0350			.1910		[illegible]	-.1090	-.2160	-.3360	-.2880
55.000			.0500	-.4350	-.3420	.0610			.0090		[illegible]				
70.000			.0240	-.4490	-.3710	.1420			.0150		[illegible]	-.3870	-.3760	-.1330	-.0600
90.000		.6060	.0280	-.4040	-.3070	.1460			-.0150		[illegible]	-.4550	-.3900	-.1400	-.0680
120.000			.1210	-.2440	-.0520	.1830			-.1020		[illegible]	-.5350	-.3270	-.2380	-.1150
142.000										-.5750					
150.000			.2560	.0480	.1830	.4640			.2600		[illegible]	-.4080	-.2270	-.1640	-.1900
157.000								.4200							
162.000									.2230						
165.000											[illegible]	-.3890	-.2600	-.3180	-.2650
169.000									.3670						
172.000							.8600								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB30)

MACH (2) = 1.247 BETAT (5) = 6.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.9240	.3470	.2690	.3720	.8340			.6240		-.4530	-.2400	-.2660	-.2190	-.2380
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.3100							.0190		-.1760					
40.000	-.0450	-.0210		-.2180	-.2610	-.2590	-.2580			-.3080					
70.000		-.0560	.0850	.1070	.1220	-.0890	-.1580	-.1420							
90.000		-.0550	.1340	.1380	.0590	-.0990	-.1550	-.1410							
105.000				.1380	-.0910	-.1120	-.1600	-.1550							
110.000									-.2750						
120.000		-.0690	.1760	.1620	-.2400	-.2880	-.2000	-.2100	-.2520						
135.000				.4350	.2990	-.3440	-.3720	-.3950							
150.000		-.2410	.0770	.2710	.2880	.0120	-.1230	-.2140							
165.000		-.1880		.2620	.3100	-.0090	-.0960	-.3170							
180.000		-.2400	-.0230	.1440											

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB31) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -6.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2570	.7620	.0000	-.4810	-.1730	-.0800			.1000		-.0630	-.1590	-.2570	-.3610	-.4140
20.000			.2680	-.3440	-.1910	-.1070			.1250		-.0450				
40.000			.4690	-.1450	-.0090	-.1250			-.1700		-.1190	-.1780	-.1900	-.2040	-.1280
55.000			.5620	.0250	.1880	.2220			.1810		.1240				
70.000			.5880	.0940	.2620	.3040			.2360		.1230	-.3270	-.2430	-.0490	-.0360
90.000		1.1160	.5680	.1340	.3260	.3530			.2650		.1070	-.4050	-.3300	-.0560	-.0600
120.000			.5300	.2500	.4160	.5070			.3620		.0920	-.4340	-.2360	-.0990	-.0660
142.000										-.2500					
150.000			.4550	.2780	.4900	.7410			.5080		-.2760	-.2520	-.2370	-.1770	-.0870
157.000								.7760							
162.000									.4230						
165.000											-.4300	-.2130	-.2270	-.1710	-.0860
169.000									.2830						
172.000							.9390								
180.000	1.2570	.2310	.2420	.2130	.3280	.7840			.5400		-.7490	-.3630	-.4540	-.3600	-.3410

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1420							-.0200		-.1300
40.000	.2490	.3730		-.0370	-.0580	-.4220	-.3230			-.1650
70.000		.0580	-.0810	.1220	.2030	.0090	-.0900	.0970		
90.000		.0700	.0220	.2120	.1600	-.0090	-.0960	.0770		
105.000				.2780	.1250	-.0210	-.0720	.0180		
110.000									-.1630	
120.000		.0420	.2360	.5480	.0440	-.1090	.0200	.0150	-.0330	
135.000				.5530	.2570	.0200	.1320	.0940		
150.000		.0160	.2790	.3370	.1400	.1690	.2090	.0870		
165.000		.0510		.3950	.3650	.2660	.2530	-.1500		
180.000		-.2100	.1240	.2160						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB31)

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.7940	.0000	-.5040	-.2650	.2050			.1120		-.0050	-.1160	-.2050	-.3220	-.0480
20.000			.2260	-.3860	-.2110	.1940			.1120		-.0220				
40.000			.3530	-.2650	.0090	.1100			.0320		-.1010	-.1550	-.1910	-.2410	-.1460
55.000			.4060	-.1850	.1280	.2110			.1580		.0060				
70.000			.4180	-.1530	.1620	.2400			.1800		-.0240	-.3700	-.3160	-.1030	-.0340
90.000		.9930	.3950	-.1100	.2310	.2620			.1810		-.0640	-.4390	-.3850	-.1120	-.0490
120.000			.4030	.1060	.3310	.4130			.2200		-.0980	-.4710	-.2670	-.1350	-.0480
142.000										-.5420					
150.000			.3930	.2240	.4040	.7040			.4580		-.3510	-.2660	-.2540	-.1600	-.0720
157.000								.7090							
162.000									.3730						
165.000											-.6710	-.2540	-.2620	-.1620	-.0790
169.000									.3070						
172.000							.9640								
180.000	1.2950	.8670	.2590	.2360	.3840	.8380			.5770		-.7010	-.3920	-.3050	-.1920	-.1240

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							-.0450		-.1200
40.000	.2090	.2790		-.1560	-.1880	-.4600	-.2970			-.2140
70.000		.0430	.0600	.1190	.1430	-.0490	-.1380	-.0560		
90.000		.0660	.1450	.1830	.0970	-.0600	-.1300	-.0700		
105.000				.2180	.0360	-.0600	-.1160	-.0960		
110.000									-.2620	
120.000		.0650	.3100	.4310	-.0510	-.1430	-.0340	-.0670	-.1780	
5.000				.6780	.2900	-.1020	.0540	.0080		
150.000		.0490	.3470	.4360	.2800	.0330	.1200	.0100		
165.000		.0500		.4630	.4340	.1480	.1480	-.2170		
180.000		.0000	.2870	.3830						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3020	.7950	.0000	-.4920	-.2320	.2000			.1320		.0130	-.1140	-.1990	-.2720	.0660
20.000			.1720	-.4360	-.2780	.1950			.1280		-.0130				
40.000			.2340	-.3630	-.1770	.1690			.0810		-.0780	-.1740	-.2440	-.3040	.0120
55.000			.2510	-.3430	.1520	.1980			.1120		-.0700				
70.000			.2480	-.3410	.1690	.1870			.1160		-.1390	-.4420	-.4050	-.1510	-.0540
90.000		.8480	.2320	-.2970	.1740	.1670			.0910		-.1800	-.5020	-.4590	-.1450	-.0690
120.000			.2730	-.0640	.2380	.2980			.0690		-.2520	-.5440	-.3170	-.1640	-.0750

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB31)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6460					
150.000			.3240	.1550	.3580	.6290			.3830		-.4580	-.3700	-.2430	-.1740	-.0820
157.000								.5970							
162.000									.2870						
165.000											-.7710	-.3340	-.2060	-.1580	-.0840
169.000									.3000						
172.000							.9430								
180.000	1.3020	.8840	.2690	.2520	.4090	.8520			.5900		-.6890	-.5380	-.2010	-.1560	-.0770

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							-.0120		-.0990
40.000	.1630	.1610		-.2650	-.2370	-.3090	-.2740			-.2320
70.000		.0640	.1200	.0910	.0840	-.1120	-.1840	-.1240		
90.000		.0810	.1850	.1310	.0230	-.1250	-.1670	-.1450		
105.000				.1350	-.0460	-.1270	-.1610	-.1700		
110.000									-.3220	
120.000		.0810	.3210	.2640	-.1670	-.2060	-.1250	-.1460	-.2550	
135.000				.7110	.2680	-.2540	-.1030	-.1000		
150.000		.0610	.3690	.5330	.3780	-.0630	-.0700	-.1030		
165.000		.0450		.5010	.4450	.0350	-.0070	-.3140		
180.000		.0250	.3320	.4320						

MACH (1) = 1.098 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2900	.7830	.0000	-.4890	-.2500	.2020			.1160		-.0050	-.1180	-.2170	-.2910	-.0370
20.000			.1070	-.4680	-.3180	.1860			.1080		-.0360				
40.000			.1070	-.4640	-.3110	.1700			.0820		-.0960	-.2150	-.3010	-.3740	-.0220
55.000			.0860	-.4860	-.2930	.1600			.0650		-.1330				
70.000			.0690	-.4960	-.1340	.1360			.0560		-.2260	-.5160	-.4790	-.1720	-.0650
90.000		.6920	.0620	-.4450	-.0650	.0510			.0120		-.3020	-.5720	-.5220	-.1810	-.0820
120.000			.1340	-.2440	.0530	.1680			-.0770		-.3970	-.6200	-.3600	-.2330	-.1160
142.000										-.7330					
150.000			.3430	.0480	.2530	.5250			.2860		-.6410	-.4750	-.2590	-.2150	-.1020
157.000								.4490							
162.000									.1750						
165.000											-.8120	-.4770	-.1920	-.2210	-.1110
169.000									.2710						
172.000							.8840								

AMES 11-FOOT (A) TEST A (A) DATASET FUSELAGE (ORBITER)

MACH (1) = 1.099 BETAT (4) = 8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE C

X/LB	.0000	.0075	.0186	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	.2900	.8790	.2610	.2320	.3040	.9280			.5660		-.6850	-.3680	-.2850	-.1980	-.1290
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1920							-.0240		-.1370					
40.000	.1340	-.0290		-.2090	-.2120	-.2230	-.2360			-.2560					
70.000		.1130	.1320	.0730	.0490	-.1670	-.2430	-.2060							
90.000		.1280	.1890	.1020	-.0150	-.1840	-.2450	-.2140							
105.000				.0710	-.1500	-.1910	-.2430	-.2260							
117.000									-.3640						
120.000		.1350	.2980	.1050	-.2900	-.3140	-.2210	-.2280	-.3220						
135.000				.7020	.2010	-.3920	-.3560	-.2520							
150.000		.1040	.3340	.4850	.3930	-.0930	-.1780	-.2510							
165.000		.0[illegible]		.4670	.4330	-.0680	-.1210	-.4050							
190.000		.0240	.2930	.3800											

MACH (1) = 1.097 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2520	.7520	.0600	-.4930	-.1740	-.1040			.1160		-.0310	-.1450	-.2490	-.3000	-.3750
20.000			.0360	-.5340	-.2190	.1210			.0900		-.0850				
40.000			-.0230	-.5620	-.4280	.1480			.0700		-.1530	-.2680	-.3850	-.4850	-.0880
55.000			-.0710	-.6140	-.4520	.0920			.0470		-.1860				
70.000			-.1160	-.6290	-.4390	-.0010			.0130		-.2930	-.5750	-.5360	-.2040	-.0550
90.000		.5190	-.1080	-.5750	-.2650	-.0220			-.0680		-.3770	-.6340	-.5390	-.2220	-.0770
120.000			-.0100	-.3890	-.1260	.0390			-.2510		-.5420	-.6730	-.3890	-.3140	-.1610
142.000										-.8000					
150.000			.1340	-.0580	.1100	.3830			.1340		-.7350	-.5450	-.3200	-.2510	-.2300
157.000								.2980							
162.000									.0710						
165.000											-.8350	-.4870	-.4080	-.3930	-.3160
169.000									.2200						
172.000							.7730								
180.000	1.2520	.8400	.2300	.1910	.3190	.7550			.5080		-.6[illegible]	-.3870	-.4270	-.3450	-.3250
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1210							.0000		-.1460					
40.000	.0820	-.0470		-.2650	-.2760	-.2750	-.2670			-.2970					

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB31)

MACH (1) = 1.097 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1200	.1270	.0520	.0420	-.2150	-.2830	-.2610		
90.000		.1100	.1650	.0910	-.0330	-.2230	-.2830	-.2560		
105.000				.0870	-.1890	-.2320	-.2860	-.2800		
110.000									-.3850	
120.000		.1180	.2590	.1280	-.3590	-.3790	-.3010	-.3240	-.3690	
135.000				.5180	.2350	-.4650	-.5140	-.5050		
150.000		-.0900	.1870	.2960	.2310	-.1190	-.2520	-.3390		
165.000		-.0600		.3050	.2650	-.1650	-.2350	-.4050		
180.000		-.2060	.1090	.2240						

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3120	.8810	.0000	-.2600	-.0670	-.2410			-.1900		.1590	.0570	-.0690	-.2070	-.3270
20.000			.4230	-.1460	-.0530	-.2220			-.0950		.0750				
40.000			.6190	.0430	.1350	-.2120			-.1300		-.1030	-.0870	-.0150	-.1130	-.0940
55.000			.7010	.1840	.3000	.1220			.1970		.1560				
70.000			.7220	.2220	.3430	.2480			.2710		.1460	-.1650	-.1360	.0210	.0180
90.000		1.1960	.6800	.2140	.3850	.3470			.3190		.1230	-.2260	-.2010	.0090	.0020
120.000			.6060	.2780	.4410	.5450			.4490		.0700	-.2700	-.1450	-.0350	-.0160
142.000										-.1530					
150.000			.5130	.2820	.4310	.7960			.6080		-.1760	-.1380	-.1580	-.1160	-.0470
157.000								.8560							
162.000									.5280						
165.000											-.3270	-.1210	-.1340	-.1120	-.0380
169.000									.3900						
172.000							1.0060								
180.000	1.3120	.8740	.2920	.2200	.3350	.8370			.6240		-.5490	-.2530	-.3210	-.2770	-.3010

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3360							.0120		-.1140
40.000	-.1090	.3780		.0690	.0110	-.2600	-.5590			.0100
70.000		-.0820	-.0360	-.0090	.1810	.0600	-.0220	-.0180		
90.000		-.0590	-.0010	.1580	.1040	.0590	-.0500	-.0180		
105.000				.2300	.1130	.0590	-.0710	.0000		
110.000									-.1140	
120.000		-.0670	.0360	.5640	.1160	-.0470	-.0250	.0860	-.0010	
135.000				.5280	.2920	-.1540	.1910	.1900		
150.000		-.0810	.1240	.2630	.1520	.1570	.2780	.1900		

AMES 11-707 IA9 C2A + C3 + T9 ORBITER FUSELAGE (RBMB31)

MACH (2) = 1.247 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7069	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0570		.3470	.4060	.2940	.3180	-.0300		
180.000		-.3010	-.0650	.1100						

MACH (2) = 1.248 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3963	.5120
PHI															
.000	1.3510	.9030	.0000	-.2880	-.0890	-.0900			-.0740		.1800	.0450	-.0680	-.1970	-.2850
20.000			.3760	-.1910	-.0590	-.1300			-.0410		.1670				
40.000			.4990	-.0740	.0810	-.1980			-.1090		.0670	-.0090	-.0530	-.1520	-.1750
55.000			.5480	-.0050	.2110	.0700			.1100		.0740				
70.000			.5460	.0030	.3520	.1910			.1300		.0280	-.2380	-.1810	-.0520	-.0280
90.000		1.0700	.5090	.0080	.3520	.2800			.1960		-.0540	-.2860	-.2510	-.0540	-.0370
120.000			.4810	.0800	.3830	.4810			.3100		-.0960	-.3590	-.1970	-.0900	-.0420
142.000										-.3690					
150.000			.4560	.1860	.4180	.7730			.5620		-.2450	-.2190	-.1880	-.1290	-.0520
157.000								.8010							
162.000									.4770						
165.000											-.5030	-.1960	-.1970	-.1260	-.0540
169.000									.4110						
172.000							1.0350								
180.000	1.3510	.9100	.3160	.2060	.3830	.8990			.6570		-.5270	-.3330	-.2650	-.1670	-.1040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1930							-.0090		-.1270
40.000	-.1520	.2840		-.0380	-.1220	-.2970	-.3010			-.0500
70.000		-.1260	-.0200	.0420	.1280	.0050	-.0690	-.0430		
90.000		-.0910	.0270	.1260	.0700	.0060	-.0880	-.0440		
105.000				.1660	.0510	.0070	-.1030	-.0480		
110.000									-.1500	
120.000		-.0580	.1230	.4490	.0490	-.1220	-.0180	.0130	-.0830	
135.000				.6630	.3310	-.1210	.0790	.0870		
150.000		-.0430	.1490	.3320	.2870	.0960	.1470	.0850		
165.000		-.0380		.3920	.4770	.2190	.1950	-.1200		
180.000		-.0760	.0850	.2850						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB31)

MACH (2) = 1.251 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	.9100	.0000	-.2930	-.0830	.0680			-.0250		.1770	.0370	-.0630	-.1550	-.2720
20.000			.3040	-.2610	-.1150	.0580			.0060		.1470				
40.000			.3680	-.1910	-.0460	-.1500			.0250		.0530	-.0330	-.0980	-.1840	-.2010
55.000			.3840	-.1700	-.0080	.0480			-.0120		.0290				
70.000			.3750	-.1740	-.0120	.1580			.0760		-.0630	-.3070	-.2730	-.1100	-.0440
90.000		.9300	.3480	-.1470	.0310	.2280			.1270		-.1650	-.3470	-.3330	-.1040	-.0550
120.000			.3570	-.0600	.2610	.4010			.1920		-.2060	-.4450	-.2520	-.1390	-.0530
142.000										-.4420					
150.000			.3900	.0770	.3680	.7130			.4940		-.3220	-.3020	-.2360	-.1390	-.0480
157.000								.7000							
162.000									.3970						
165.000											-.5690	-.2630	-.2060	-.1280	-.0500
169.000									.4080						
172.000							1.0190								
180.000	1.3630	.9260	.3220	.1760	.4120	.9180			.6670		-.4040	-.3960	-.1730	-.1390	-.0450

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1090							.0150		-.1120
40.000	-.1940	.1790		-.1350	-.1840	-.3440	-.2790			-.1780
70.000		-.1270	.0150	.0580	.0940	-.0430	-.0990	-.0690		
90.000		-.0940	.0680	.1040	.0440	-.0360	-.1160	-.0770		
105.000				.1100	.0070	-.0520	-.1170	-.0880		
110.000									-.1910	
120.000		-.0610	.1690	.3000	-.0580	-.1930	-.0670	-.0710	-.1280	
135.000				.7420	.3350	-.1530	-.0880	-.0400		
150.000		-.0360	.1140	.4080	.4330	.0400	.0080	-.0400		
165.000		-.0350		.4510	.5310	.1460	.0830	-.2230		
180.000		-.0310	-.0230	.4050						

MACH (2) = 1.251 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3550	.9090	.0000	-.2720	-.0980	-.0920			-.0850		.2050	.0590	-.0550	-.1690	-.2890
23.000			.2610	-.2870	-.1380	-.0020			-.0740		.1600				
40.000			.2500	-.2730	-.1470	-.0430			-.0460		.0530	-.0570	-.1430	-.2430	-.2600
55.000			.2250	-.3010	-.1800	.0440			.0240		.0010				
70.000			.2070	-.3150	-.2340	.1370			.0450		-.1450	-.3490	-.3270	-.1500	-.0540
90.000		.7640	.1950	-.2780	-.1710	.1800			.0600		-.2410	-.4080	-.3740	-.1320	-.0600
120.000			.2380	-.1670	.0950	.3020			.0600		-.2460	-.4850	-.3340	-.2010	-.0770

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB31)

MACH (2) = 1.251 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5190					
150.000			.3180	.0330	.2640	.6210			.4020		-.454[illegible]	-.3560	-.2200	-.1710	-.0550
157.000								.5630							
162.000									.2960						
165.000											-.588[illegible]	-.3600	-.1690	-.1880	-.1300
169.000									.3870						
172.000							.9630								
180.000	1.3550	.9240	.3240	.2120	.3820	.8970			.6500		-.480[illegible]	-.3510	-.2470	-.1580	-.0980
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0018	1.0392					
PHI															
.000	-.1680							.0090		-.1250					
40.000	.0110	.0270		-.2080	-.2220	-.2810	-.2290			-.2200					
70.000		-.1350	.0380	.0700	.0730	-.0740	-.1370	-.1170							
90.000		-.0940	.0820	.0840	.0300	-.0810	-.1530	-.1260							
105.000				.0820	-.0910	-.0990	-.1480	-.1340							
110.000									-.2400						
120.000		-.0910	.1340	.1800	-.1720	-.2940	-.1360	-.1440	-.1970						
135.000				.7060	.2930	-.2470	-.2560	-.2440							
150.000		-.0540	.0700	.2480	.3730	.0420	-.0690	-.1470							
165.000		-.1000		.2800	.4420	.0690	-.0200	-.2910							
180.000		-.0690	.0910	.2920											

MACH (2) = 1.230 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3000	.8740	.0000	-.2620	-.0570	-.2570			-.2220		.168[illegible]	.0830	-.0560	-.1610	-.3250
20.000			.1950	-.3250	-.1180	-.2780			-.1010		.144[illegible]				
40.000			.1200	-.3650	-.2780	-.0830			-.0710		.051[illegible]	-.2960	-.2140	-.3410	-.3000
55.000			.0660	-.4220	-.3550	.0480			-.0100		-.034[illegible]				
70.000			.0260	-.4410	-.3760	.1330			.0160		-.217[illegible]	-.3960	-.3820	-.1730	-.0710
90.000		.6080	.0240	-.4050	-.3290	.1500			-.0040		-.302[illegible]	-.4890	-.4070	-.1630	-.0780
120.000			.0960	-.2690	-.0750	.1940			-.0800		-.370[illegible]	-.551[illegible]	-.3680	-.2490	-.1180
142.000										-.5790					
150.000			.2150	-.0110	.1380	.4580			.2490		-.519[illegible]	-.4250	-.2510	-.2160	-.2030
157.000								.4170							
162.000									.2070						
165.000											-.575[illegible]	-.4211	-.2740	-.3270	-.2840
169.000									.3410						
172.000							.8440								

AMES 11-707 IA9 O2A + S3 + TS ORBITER FUSELAGE (RBMB31)

MACH (2) = 1.250 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3000	.8810	.2880	.2020	.3070	.8130			.5940		.5020	-.2710	-.2970	-.2660	-.2920
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.3380							.0160		-.1360					
40.000	-.0560	-.0190		-.2280	-.2620	-.2680	-.2570			-.2810					
70.000		.0010	.0700	.0780	.1050	-.0940	-.1630	-.1600							
90.000		-.0160	.1080	.1170	.0340	-.1120	-.1690	-.1590							
105.000				.1190	-.1030	-.1230	-.1710	-.1700							
110.000									-.2810						
120.000		-.0840	.1670	.1720	-.2220	-.3170	-.1940	-.2090	-.2460						
135.000				.4600	.3250	-.3100	-.3380	-.3700							
150.000		-.2640	.0500	.2330	.2280	-.0220	-.1400	-.2220							
165.000		-.1890		.2390	.3040	-.0410	-.1170	-.3250							
180.000		-.3360	-.0580	.1190											

REFERENCE DATA

SREF = 2.4210 SQ.FT. AMRP = 38.5370 INCHES
LREF = 39.8497 INCHES YMRP = .0000 INCHES
DREF = 39.8497 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = +4.000 DELTA = .000
BODY = +10.00 ELEVON = .000
RUDDER = .000

MACH (1) = 1.100 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1959	.2259	.2711	.3390	.3843	.5120
PHI															
.000	1.1540	.7730	.0000	-.4810	-.1900	-.1100			.1090		-.0500	-.1460	-.2540	-.3590	-.3720
20.000			.2880	-.3300	-.2040	-.0830			.1310		-.0320				
40.000			.4860	-.1300	.0150	-.1020			-.1510		-.1040	-.1570	-.1720	-.1390	-.10
55.000			.5720	.0250	.1720	.2250			.1920		.1260				
70.000			.5900	.0790	.2300	.2960			.2420		.1100	-.3220	-.2440	-.1270	-.0570
90.000		1.1110	.5550	.0890	.2390	.3440			.2690		.1900	-.4021	-.3350	-.0960	-.1790
120.000			.4850	.1830	.3650	.4880			.3720		.0170	-.4430	-.2670	-.1330	-.0960
142.000										-.2590					
15.000			.3980	.1960	.3670	.7190			.4890		-.3120	-.2790	-.2700	-.2080	-.1270
157.000								.7580							
162.000									.3980						
165.000											-.4560	-.2390	-.2560	-.1940	-.1170
169.000									.2500						
172.000							.9240								
180.000	1.2540	.7370	.1590	.1320	.2690	.7610			.5120		-.7741	-.3941	-.4830	-.4071	-.2.91

X/LB	.5977	.6626	.7187	.7969	.8283	.8846	.9262	.9639	1.0016	1.0392
PHI										
.000	.1510							-.0050		-.1050
40.000	.2640	.3930		-.0010	.0050	-.4080	-.3200			-.1230
70.000		.0350	-.1000	.0840	.1910	-.0120	-.1190	.0020		
90.000		.0580	-.0280	.1960	.1390	-.0300	-.1410	-.0450		
105.000				.2750	.1010	-.0300	-.1350	-.0670		
110.000									-.1410	
120.000		.0300	.1940	.5470	.0370	-.1300	-.0030	-.0180	-.1060	
135.000				.5160	.2270	-.1150	.1060	.0690		
150.000		.0250	.2550	.3060	.1060	.1200	.1770	.0660		
165.000		.0540		.3690	.3370	.2090	.2190	-.1660		
180.000		-.1410	.1280	.2200						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB32)

MACH (1) = 1.098 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

x/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2880	.8060	.0000	-.4880	-.2580	.1570			.1270		-.0020	-.1030	-.1960	-.3170	-.0810
20.000			.2430	-.3730	-.2170	.1290			.1300		-.0130				
40.000			.3690	-.2500	.0040	.0520			.0490		-.0770	-.1440	-.1850	-.2420	-.1560
55.000			.4170	-.1790	.1230	.1080			.1720		.0210				
70.000			.4210	-.1610	.1450	.1650			.1870		-.0200	-.3710	-.3180	-.1280	-.0590
90.000		.9830	.3860	-.1460	.2130	.2180			.1800		-.0600	-.4400	-.3930	-.1360	-.0720
120.000			.3620	.0290	.2980	.3890			.2170		-.1320	-.4850	-.2970	-.1690	-.0620
142.000										-.5530					
150.000			.3350	.1240	.3570	.6780			.4350		-.3680	-.3040	-.2850	-.1900	-.0830
157.000								.6890							
162.000									.3430						
165.000											-.7020	-.2880	-.2910	-.1860	-.0870
169.000									.2660						
172.000							.9440								
180.000	1.2880	.8200	.1850	.1470	.3270	.8140			.5410		-.7320	-.4340	-.3670	-.2150	-.1330

x/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2000							-.0370		-.1030
40.000	.2220	.2910		-.1290	-.1380	-.4510	-.2520			-.1810
70.000		.0100	-.0450	.0770	.1290	-.0680	-.1590	-.0940		
90.000		.0370	.0750	.1510	.0690	-.0830	-.1660	-.1020		
105.000				.1930	.0290	-.0850	-.1540	-.1210		
110.000									-.2880	
120.000		.0350	.2580	.3910	-.0570	-.1720	-.0690	-.0810	-.1910	
135.000				.6400	.2630	-.1480	.0270	-.0040		
150.000		.0340	.3100	.3980	.2450	-.0120	.0870	-.0140		
165.000		.0430		.4270	.4040	.0980	.1070	-.2390		
180.000		.0080	.2460	.3500						

MACH 1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

x/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3000	.8140	.0000	-.4890	-.2270	.1740			.1470		.0250	-.0970	-.1790	-.2690	-.0770
20.000			.1850	-.4300	-.2740	.1790			.1430		.0000				
40.000			.2460	-.3540	-.1850	.1370			.0980		-.0610	-.1560	-.2250	-.2950	-.1310
55.000			.2600	-.2330	-.0520	-.0720			.1290		-.0550				
70.000			.2530	-.3410	.1420	.0250			.1280		-.1220	-.4470	-.4010	-.1960	-.0910
90.000		.8470	.2240	-.3100	.1780	.0940			.0990		-.1960	-.5110	-.4620	-.1640	-.0760
120.000			.2410	-.1610	.2000	.2840			.0700		-.2780	-.4350	-.3460	-.1660	-.0760

AMES 11-FT IA9 (IA + T. ORBITER FUSELAGE (COMBINED)

MACH (1) = 1.100 BETAT (3) = .02

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6600					
150.000			.2710	.0540	.3210	.6140			.3670		-.4940	-.4090	-.2890	-.1860	-.0790
157.000								.5850							
162.000									.2620						
165.000											-.7950	-.3740	-.2480	-.1730	-.0820
169.000									.2660						
172.000							.9280								
180.000	1.3030	.8390	.2010	.1690	.3620	.8320			.5580		-.7190	-.5800	-.2270	-.1770	-.0800

X/LB	.5873	.7626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1970							-.0080		-.0680
40.000	.1750	[illegible]		-.2400	-.2090	-.3800	-.2610			-.2150
70.000		.1400	.0570	.0570	.0720	-.1230	-.2020	-.1530		
90.000		.0470	.1270	.1070	.0110	-.1300	-.1990	-.1680		
105.000				.1210	-.0380	-.1290	-.1900	-.1860		
110.000									-.3210	
120.000		.0560	.2920	.2710	-.1520	-.2090	-.1400	-.1590	-.2590	
135.000				.6950	.2550	-.2510	-.1100	-.1040		
150.000		.3470	.3370	.4800	.3490	-.0810	-.0910	-.1180		
165.000		.0470		.4740	.4130	.0180	-.0370	-.3240		
180.000		.0290	.2050	.4070						

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.7980	.0000	-.4790	-.2490	.1520			.1410		.0050	-.0950	-.2020	-.2780	-.0130
20.000			.1230	-.4790	-.3120	.1490			.1280		-.0260				
40.000			.1210	-.4530	-.3060	.0930			.0990		-.0870	-.1980	-.2830	-.3650	.0340
55.000			.1000	-.4770	-.3100	-.0970			.0860		-.1220				
70.000			.0770	-.4930	-.2650	-.0110			.0700		-.2220	-.5080	-.4730	-.2070	-.0710
90.000		.6870	.0580	-.4560	-.3660	.0330			-.0020		-.2840	-.5680	-.5200	-.1920	-.0800
120.000			.1020	-.3240	.0310	.1740			-.0880		-.3990	-.6190	-.4000	-.2220	-.0910
142.000										-.7480					
150.000			.1880	-.0560	.2070	.5160			.2690		-.6560	-.5310	-.2620	-.2300	-.1100
157.000								.4460							
162.000									.1540						
165.000											- 9240	-.5150	-.2210	-.2320	-.1460
169.000									.2350						
172.000							.8700								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB32)

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2850	.8270	.1910	.1430	.3240	.8070			.5300		-.7360	-.4280	-.3380	-.2200	-.1230

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1990							-.0160		-.1170
40.000	.1450	-.0200		-.1930	-.2030	-.2260	-.2200			-.2480
70.000		.0740	.1100	.0550	.0360	-.1770	-.2630	-.2290		
90.000		.1000	.1690	.0890	-.0290	-.1880	-.2610	-.2310		
105.000				.0660	-.1430	-.1990	-.2630	-.2490		
110.000									-.3690	
120.000		.1100	.2890	.1490	-.2730	-.3210	-.2560	-.2390	-.3310	
135.000				.6940	.1950	-.3840	-.3420	-.2590		
150.000		.0710	.3180	.4870	.3630	-.1150	-.2070	-.2620		
165.000		.0270		.4580	.4180	-.0920	-.1430	-.4170		
180.000		-.0010	.2590	.3470						

MACH (1) = 1.101 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2390	.7670	.0000	-.4790	-.2010	-.1220			.1220		-.0280	-.1420	-.2530	-.3040	-.3110
20.000			.0520	-.5240	-.2340	.0560			.1010		-.0600				
40.000			-.0120	-.5530	-.4290	.0900			.0730		-.1500	-.2740	-.3970	-.4850	-.0730
55.000			-.0680	-.6090	-.4780	-.0600			.0460		-.1760				
70.000			-.1160	-.6300	-.4800	-.0280			.0030		-.2520	-.5820	-.5570	-.2410	-.0480
90.000		.5130	-.1160	-.5860	-.4220	-.0150			-.1070		-.3770	-.6380	-.5830	-.2450	-.0600
120.000			-.0430	-.4350	-.1530	.0520			-.2310		-.5610	-.6900	-.4040	-.3290	-.1150
142.000										-.8080					
150.000			.0840	-.1290	.0610	.3780			.1180		-.7530	-.5890	-.3590	-.2870	-.2310
157.000								.2910							
162.000									.0530						
165.000											-.8510	-.5410	-.4250	-.4120	-.3310
169.000									.1920						
172.000							.7560								
180.000	1.2390	.7890	.1590	.1100	.2560	.7310			.4770		-.7760	-.4230	-.4570	-.4140	-.3860

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1460							.0030		-.0840
40.000	.0880	-.0120		-.2540	-.2750	-.2700	-.2630			-.2940

AMES 11-FOOT TWO DOME + 03 > 79 ORBITER FUSELAGE (68-838)

MACH (1) = 1.101 BETAT (1) = 8.260

SECTION 1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0970	.0980	.0310	.0270	-.2190	-.2950	-.2820		
90.000		.0970	.1460	.0740	-.0460	-.2330	-.3040	-.2910		
105.000				.0600	-.1950	-.2400	-.3040	-.3060		
110.000									-.3870	
120.000		.1060	.2370	.0990	-.3480	-.3990	-.3080	-.3260	-.3690	
135.000				.5820	.2270	-.4740	-.5030	-.4740		
150.000		-.0910	.1240	.2420	.1880	-.1500	-.2840	-.3660		
165.000		-.0200		.2760	.2760	-.1880	-.2590	-.4130		
180.000		-.1010	.1150	.2200						

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION 1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1381	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2980	.9060	.0000	-.2760	-.0560	-.2460			-.2490		.1740	.0800	-.0490	-.1950	-.3220
20.000			.4430	-.1300	-.0500	-.2340			-.1830		-.0410				
40.000			.6340	.0620	.1400	-.2130			-.2140		-.3660	-.0760	.0170	-.1000	-.0950
55.000			.7010	.1990	.2910	.1000			.1790		.1680				
70.000			.7250	.2200	.3210	.2180			.2520		.1590	-.1690	-.1260	-.0080	-.0040
90.000		1.1840	.6550	.1900	.3620	.3200			.2960		.1010	-.2310	-.2060	-.0190	-.0260
120.000			.5620	.2140	.3990	.5180			.4420		-.0210	-.2770	-.1850	-.0710	-.0490
142.000										-.1570					
150.000			.4600	.1950	.3780	.7670			.5850		-.2110	-.1860	-.1880	-.1360	-.0740
157.000								.8380							
162.000									.5010						
165.000											-.3560	-.1680	-.1610	-.1350	-.0630
169.000									.3550						
172.000							.9860								
180.000	1.2980	.8290	.2430	.1420	.2760	.8110			.5930		-.5690	-.2960	-.3450	-.3220	-.3350

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1520							.0280		-.1040
40.000	-.1100	.4300		.0900	.0390	-.2440	-.5480			.0320
70.000		-.0960	-.0610	-.0770	.1570	.0370	-.0430	-.0460		
90.000		-.0790	-.0380	.1390	.0730	.0390	-.0730	-.0700		
105.000				.2190	.1000	.0370	-.1000	-.0710		
110.000									-.1340	
120.000		-.0960	-.0120	.5730	.1260	-.0720	-.0730	.0500	-.0360	
135.000				.4690	.2620	-.1860	.1450	.1510		
150.000		-.1070	.1100	.2210	.1290	.0930	.2410	.1630		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB32)

MACH (2) = 1.249 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0810		.3070	.3920	.2410	.2810	-.0490		
180.000		-.3000	-.0580	.1240						

MACH (2) = 1.250 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3470	.9280	.0000	-.2750	-.0760	-.1360			-.1280		.2090	.0890	-.0390	-.1700	-.2750
20.000			.3940	-.1760	-.0480	-.1630			-.1110		.1330				
40.000			.5190	-.0540	.0760	-.1920			-.1310		-.0780	.0170	-.0180	-.1270	-.1650
55.000			.5650	.0110	.1790	.0550			.0150		.0850				
70.000			.5590	.0150	.2070	.1700			.1260		-.0490	-.2430	-.1620	-.0640	-.0500
90.000		1.0670	.5090	.0050	.3850	.2660			.2020		-.0690	-.2940	-.2830	-.0630	-.0550
120.000			.4570	.0320	.3700	.4680			.3240		-.1250	-.3750	-.2180	-.1030	-.0560
142.000										-.3700					
150.000			.4150	.1020	.3790	.7530			.5470		-.2690	-.2610	-.2270	-.1590	-.0720
157.000								.7910							
162.000									.4580						
165.000											-.5190	-.2270	-.2280	-.1480	-.0710
169.000									.3800						
172.000							1.0180								
180.000	1.3470	.8690	.2720	.1060	.3370	.8750			.6290		-.5240	-.3640	-.2920	-.1900	-.1220

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0930							-.0070		-.1060
40.000	-.1260	.3080		-.0080	-.0600	-.2850	-.3070			-.0300
70.000		-.1270	-.0690	-.0105	.1080	-.0140	-.0840	-.0770		
90.000		-.0970	-.0120	.1030	.0460	-.0110	-.1080	-.0910		
105.000				.1620	.0460	-.0110	-.1290	-.0880		
110.000									-.1660	
120.000		-.0750	.0880	.4190	.0460	-.1330	-.0570	-.0170	-.0890	
135.000				.6140	.0370	-.1590	.0500	.0680		
150.000		-.0600	.1430	.3020	.2530	.0590	.1190	.0630		
165.000		-.0530		.3610	.4450	.1830	.1620	-.1370		
180.000		-.1030	.0940	.2580						

AMES 11-FOOT TAP (9A + 93 + 94 ORBITER FUSELAGE (RBMB32)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3590	.9250	.0000	-.3480	-.1670	.0570			-.0640		.1650	.0630	-.0430	-.1420	-.2630
20.000			.2930	-.3130	-.1890	.0490			-.0590		.0820				
40.000			.3670	-.2210	-.1140	-.1270			-.0410		-.0490	-.0280	-.0730	-.1700	-.2050
55.000			.3960	-.1830	-.0660	.0490			.0360		.0180				
70.000			.3800	-.1870	-.0700	.1500			.0800		-.1090	-.3140	-.2930	-.1300	-.0670
90.000		.9240	.3350	-.1640	-.0370	.2240			.1330		-.1680	-.3880	-.3480	-.1190	-.0680
120.000			.3230	-.0920	.2120	.3950			.1990		-.2160	-.4550	-.3100	-.1640	-.0690
142.000										-.4510					
150.000			.3440	-.0110	.2930	.6980			.4770		-.3390	-.3310	-.2710	-.1680	-.0630
157.000								.6870							
162.000									.3730						
165.000											-.5830	-.2900	-.2400	-.1690	-.0650
169.000									.3740						
172.000							.9990								
180.000	1.3590	.5760	.2700	.0940	.3250	.8950			.6350		-.5140	-.4200	-.2010	-.1790	-.0590

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0010							.0120		-.0970
40.000	-.0840	.1960		-.1170	-.1560	-.3390	-.2710			-.1600
70.000		-.1190	-.0300	.0150	.0740	-.0600	-.1280	-.1050		
90.000		-.0910	.0290	.0780	.0150	-.0540	-.1420	-.1080		
105.000				.0940	.0010	-.0540	-.1480	-.1190		
110.000									-.2160	
125.000		-.0680	.1530	.2900	-.0480	-.2060	-.0890	-.0950	-.1470	
135.000				.6920	.3190	-.1640	-.0970	-.0570		
150.000		-.0520	.1430	.3810	.4000	.0160	-.0160	-.0600		
165.000		-.0500		.4220	.4680	.1230	.0530	-.2350		
180.000		-.0460	-.0120	.3800						

MACH (2) = 1.246 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3430	.9190	.0000	-.2730	-.0950	-.1320			-.1310		.2120	.0750	-.0490	-.1560	-.2900
20.000			.2700	-.2870	-.1340	-.0440			-.1170		.1740				
40.000			.2600	-.2700	-.1490	-.0790			-.0820		.0510	-.0680	-.1430	-.2300	-.2620
55.000			.2330	-.2970	-.1760	.0260			.0070		-.0600				
70.000			.2090	-.3160	-.2180	.1190			.0370		-.1930	-.3830	-.3480	-.1760	-.0710
90.000		.7760	.1860	-.2880	-.1830	.1730			.0610		-.2480	-.4560	-.4050	-.1510	-.0770
120.000			.2070	-.1930	.0750	.3030			.0690		-.3020	-.5100	-.3850	-.2100	-.0790

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB32)

MACH (2) = 1.246 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5280					
150.000			.2730	-.0430	.2220	.6060			.3810		-.4780	-.3910	-.2500	-.2200	-.0660
157.000								.5520							
162.000									.2770						
165.000											-.6170	-.3950	-.2000	-.2190	-.1340
169.000									.3560						
172.000							.9420								
180.000	1.3430	.6780	.2670	.1160	.3320	.8690			.6150		-.5150	-.3850	-.2790	-.1860	-.1180

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0050							-.0010		-.0910
40.000	.0510	.0340		-.1880	-.2090	-.2790	-.2270			-.2010
70.000		-.1000	.0030	.0480	.0500	-.0970	-.1600	-.1420		
90.000		-.0880	.0590	.0710	.0160	-.0950	-.1810	-.1450		
105.000				.0580	-.0830	-.1050	-.1780	-.1610		
110.000									-.2420	
120.000		-.0840	.1490	.2120	-.1590	-.3070	-.1560	-.1600	-.1900	
135.000				.7260	.2760	-.2570	-.2580	-.2280		
150.000		-.0630	.0530	.3180	.4050	.0030	-.1020	-.1580		
165.000		-.1050		.3730	.4670	.0430	-.0460	-.3020		
180.000		-.0950	.0810	.2690						

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2860	.8830	.0000	-.2560	-.0700	-.2670			-.2740		-.1670	.0920	-.0430	-.1590	-.3310
20.000			.2030	-.3240	-.1280	-.2890			-.2040		-.1330				
40.000			.1270	-.3600	-.2790	-.1300			-.1110		-.0380	-.0960	-.2170	-.3390	-.2580
55.000			.0700	-.4190	-.3340	.0260			-.0320		-.0670				
70.000			.0260	-.4430	-.3770	.1120			.0060		-.2520	-.4165	-.3980	-.2040	-.0810
90.000		.6010	.0160	-.4160	-.3370	.1440			-.0040		-.3167	-.5150	-.4310	-.1840	-.0910
120.000			.0720	-.2950	-.0920	.1970			-.0720		-.3830	-.5460	-.4040	-.2570	-.1210
142.000										-.5980					
150.000			.1730	-.0770	.0970	.4510			.2300		-.5650	-.4510	-.2790	-.1430	-.2080
157.000								.4020							
162.000									.1820						
165.000											-.6624	-.4430	-.2960	-.1430	-.1
169.000									.3070						
172.000							.8170								

AMES 11 PDT IA9 02A + 03 + 79 ORBITER FUSELAGE (RBM832)

MACH (2) = 1.240 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0330	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2860	.8320	.2270	.1310	.2510	.7800			.5560		-.5350	-.3160	-.3230	-.3220	-.3380
X/LB	.5373	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.0560							.0100		-.1090					
40.000	-.0180	-.0190		-.2300	-.2590	-.2620	-.2410			-.2640					
70.000		.0020	.0250	.0480	.0840	-.1030	-.1780	-.1740							
90.000		.0040	.0740	.0940	.0020	-.1220	-.1880	-.1790							
105.000				.0640	-.1200	-.1400	-.1900	-.1910							
110.000									-.2910						
120.000		-.0870	.1280	.1530	-.2240	-.3560	-.2090	-.2180	-.2530						
135.000				.5920	.3060	-.3090	-.3300	-.3610							
150.000		-.2150	-.0170	.1840	.1980	-.0580	-.1710	-.2430							
165.000		-.1540		.2400	.3260	-.0590	-.1400	-.3400							
180.000		-.3000	-.0520	.1370											

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB33) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.320	.3953	.5120
PHI															
.000	1.2420	.7950	.0000	-.4510	-.2070	-.2940			.1120		-.0190	-.1300	-.2450	-.3360	-.3800
20.000			.3060	-.3190	-.2110	-.0960			.0250		-.0140				
40.000			.5040	-.1190	-.0180	-.0950			-.1220		-.0850	-.1340	-.1550	-.1620	-.1190
55.000			.5840	.0250	.1530	.2120			.2070		.1320				
70.000			.5920	.0590	.2000	.2660			.2490		.1140	-.3170	-.2420	-.0970	-.0670
90.000		1.0960	.5340	.0390	.2580	.3180			.2750		.0780	-.4000	-.3180	-.1100	-.1020
120.000			.4350	.0970	.3110	.4650			.3700		-.0330	-.4550	-.3020	-.1610	-.1310
142.000										-.2740					
150.000			.3280	.0890	.3000	.6950			.4650		-.3480	-.3090	-.3030	-.2350	-.1550
157.000								.7390							
162.000									.3710						
165.000											-.4820	-.2620	-.2850	-.2170	-.1260
169.000									.2110						
172.000							.9030								
180.000	1.2420	.7390	.1010	.0320	.2080	.7410			.4840		-.7970	-.4270	-.5030	-.5030	-.4000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1640							.0290		-.1040
40.000	.2750	.4090		.1450	.0150	-.4000	-.3060			-.1120
70.000		-.0120	-.1110	.0700	.1810	-.0280	-.1310	-.0960		
90.000		.0150	-.0590	.1770	.1250	-.0470	-.1610	-.1020		
105.000				.2570	.0780	-.0490	-.1740	-.1170		
110.000									-.2310	
120.000		.0110	.1550	.5500	.0360	-.1440	-.0550	-.0430	-.1460	
135.000				.4800	.1980	-.2220	.0640	.0440		
150.000		.0330	.2320	.2760	.0790	.0700	.1410	.0400		
165.000		.0210		.3430	.3160	.1590	.1810	-.1860		
180.000		-.0810	.1260	.2290						

AMES 11-7?? IA9 OEA * SO - ?? ORBITER FUSELAGE (NONE53)

MACH (1) = 1.101 BETAT (2) = -4.090

SECTION / 1.ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.8270	.0000	-.4700	-.2560	-.1690			.1620		.0350	-.0740	-.1730	-.2740	-.1390
20.000			.2600	-.3660	-.2240	-.2650			.1690		.0220				
40.000			.3850	-.2360	-.0620	-.3500			.0870		-.0430	-.1150	-.1530	-.2000	-.1510
55.000			.4330	-.1680	.1290	-.0820			.1990		.0460				
70.000			.4240	-.1610	.1560	.0470			.1950		.0000	-.3640	-.3060	-.1410	-.0880
90.000		.9780	.3730	-.1690	.2050	.1500			.1730		-.0480	-.4340	-.3820	-.1410	-.1010
120.000			.3220	-.0930	.2610	.3570			.2130		-.1600	-.4930	-.3280	-.1810	-.0870
* >.000										-.5640					
1** 000			.2780	-.0220	.3030	.6550			.4150		-.4260	-.5430	-.3120	-.2150	-.0860
157.000								.6730							
152.000									.3160						
165.000											-.7340	-.3170	-.3170	-.2100	-.0790
160.000									.2320						
172.000							.9270								
180.000	1.2850	.7740	.1220	.0200	.2690	.7910			.5100		-.7530	-.4800	-.3950	-.2300	-.1240

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2050							-.0210		-.1000
40.000	.2370	.3110		-.0920	-.0530	-.4350	-.2450			-.1420
70.000		-.0090	-.1190	.0350	.1170	-.0850	-.1830	-.1530		
90.000		.7020	-.0020	.1210	.0390	-.0980	-.2080	-.1540		
105.000				.1680	-.0020	-.0980	-.2080	-.1620		
110.000									-.2990	
120.000		.0220	.2240	.4130	-.0590	-.1930	-.1220	-.1090	-.2080	
135.000				.5780	.2280	-.1950	-.0210	-.0300		
150.000		.0280	.2750	.3670	.2150	-.0470	.0410	-.0510		
165.000		.0410		.3880	.3550	.0630	.0540	-.2590		
180.000		-.0230	.2130	.3230						

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.8160	.0000	-.5280	-.2450	-.0780			.1470		.0360	-.0730	-.1440	-.2360	-.0680
20.000			.1600	-.4750	-.3120	-.0940			.1420		.0140				
40.000			.2390	-.3830	-.2230	-.1030			.1060		-.0410	-.1300	-.1970	-.2690	-.0250
55.000			.2630	-.3460	-.1500	-.0740			.1400		-.0340				
70.000			.2520	-.3510	-.1180	.0130			.1340		-.1110	-.4390	-.3920	-.2120	-.0870
90.000		.8430	.2110	-.3290	.1960	.0900			.1000		-.1640	-.4970	-.4600	-.1980	-.0900
120.000			.2020	-.2470	.1900	.2740			.0640		-.0940	-.5610	-.3920	-.1730	-.0880

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB33)

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.6760					
142.000									.3430		-.5240	-.4450	-.3290	-.1970	-.0710
150.000			.2140	-.0900	.2730	.5960		.5700							
157.000									.2340						
162.000											-.8130	-.4110	-.2900	-.1930	-.0750
165.000									.2270						
169.000							.9090								
172.000									.5210		-.7420	-.6170	-.2520	-.1970	-.0730
180.000	1.3090	.7950	.1350	.0180	.3100	.8090									

X/LB	.5875	.6626	.7330	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI								-.0070		-.0700
.000	.2010									-.1850
40.000	.1770	.1780		-.1960	-.1680	-.3780	-.2150			
70.000		-.0150	-.0280	.0320	.0550	-.1340	-.2290	-.1800		
90.000		.0180	.0710	.0800	-.0050	-.1480	-.2280	-.1850		
105.000				.0910	-.0570	-.1450	-.2190	-.2090		
110.000									-.3340	
120.000		.0360	.2500	.2720	-.1510	-.2350	-.1780	-.1700	-.2680	
135.000				.6570	.2340	-.2680	-.1350	-.1230		
150.000		.0380	.3020	.4240	.3140	-.1090	-.1190	-.1490		
165.000		.0340		.4340	.3780	-.0090	-.0720	-.3370		
180.000		.0310	.2730	.3750						

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2760	.8170	.0000	-.4730	-.2420	-.1710			.1660		[illegible]	-.3810	-.1840	-.2350	[illegible]
20.000			.1380	-.4740	-.3080	-.1530			.1560		-.2030				
40.000			.1350	-.4460	-.3060	-.1240			.1300		-.1650	-.1790	-.2620	-.3350	[illegible]
55.000			.1100	-.4720	-.3200	-.1210			.1060		-.1300				
70.000			.0780	-.4920	-.3550	-.0230			.0200		-.1990	-.5070	-.4670	-.0300	[illegible]
90.000		.6250	[illegible]	-.4610	-.3060	.0320			-.0820		-.2510	-.5790	-.5200	-.1950	[illegible]
120.000			.0930	-.3630	.0110	.1760			-.0730		-.4930	-.6300	-.4130	-.2700	[illegible]
142.000										-.7510					
150.000			.1360	-.1580	.1590	.5040			.2480		-.6760	-.5730	-.2461	-.2310	[illegible]
157.000								.4360							
162.000									.1330						
165.000											-.5490	-.5540	-.3770	-.2720	[illegible]
169.000									.2040						
[illegible]							.8510								

AMES 11-FOOT TA3 OPA : OF + 7° ORBITER FUSELAGE (PEN855

MACH (1) = 1.101 BETAT (4) = 8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2760	.7780	.1290	.0370	.2670	.7820			.4980		-.[illegible]	-.4700	-.3740	-.2370	-.1300

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2070							-.0120		-.0700
40.000	.1490	-.0060		-.1510	-.1970	-.2210	-.1970			-.2290
70.000		.0490	.0550	.0300	.0220	-.1830	-.2740	-.2500		
90.000		.0770	.1250	.0670	-.0420	-.1930	-.2760	-.2600		
105.000				.0630	-.1270	-.1940	-.2730	-.2750		
110.000									-.3770	
120.000		.1000	.2620	.1510	-.2600	-.3190	-.2430	-.2580	-.3380	
135.000				.6900	.1840	-.3810	-.3300	-.2520		
150.000		.0700	.2900	.4870	.3240	-.1430	-.2410	-.2720		
165.000		.0470		.4450	.4030	-.1140	-.1660	-.4150		
180.000		-.0170	.2080	.3080						

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2310	.7840	.0000	-.4650	-.2090	-.1920			.1210		-.[illegible]	-.1250	-.2390	-.2830	-.3930
20.000			.0670	-.5150	-.2400	-.1600			.1120		-.[illegible]				
40.000			.0020	-.5440	-.4230	-.1390			.0840		-.[illegible]	-.2660	-.3850	-.4550	-.5650
55.000			-.0570	-.6020	-.4790	-.1100			.0450		-.[illegible]				
70.000			-.1170	-.6280	-.5100	-.0360			-.0350		-.[illegible]	-.5730	-.5500	-.2960	-.0270
90.000		.5070	-.1260	-.5980	-.4830	-.0110			-.1460		-.[illegible]	-.6290	-.5860	-.2380	-.0400
120.000			-.0700	-.4720	-.1780	.0660			-.2130		-.[illegible]	-.7160	-.4180	-.3020	-.1070
142.000										-.8150					
150.000			.0210	-.2110	.0110	.3720			.1070		-.[illegible]	-.6180	-.4000	-.3020	-.2070
157.000								.2840							
162.000									.0360						
165.000											-.[illegible]	-.5790	-.4450	-.4200	-.2980
169.000									.1660						
172.000							.7390								
180.000	1.2310	.7400	.0880	.0190	.1900	.7100			.4480		-.[illegible]	-.4570	-.3470	-.5760	-.4140

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
000	.1540							.0140		-.0640
40.000	.0930	.0230		-.2330	-.2490	-.2440	-.2430			-.2970

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB33)

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0630	.0690	.0210	.0090	-.2220	-.3110	-.3040		
90.000		.0840	.1330	.0860	-.0580	-.2410	-.3220	-.3120		
105.000				.0450	-.1930	-.2480	-.3220	-.3240		
110.000									-.3920	
120.000		.0960	.2240	.0860	-.3390	-.4060	-.3100	-.3350	-.3720	
135.000				.7120	.2250	-.4400	-.4620	-.4030		
150.000		-.0140	.1530	.2260	.0970	-.2140	-.3170	-.3710		
165.000		-.0610		.3190	.3310	-.1980	-.2640	-.4500		
180.000		-.0610	.1210	.2230						

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.070	1.2890	.9160	.0000	-.2480	-.0490	-.2510			-.2840		.0240	.0910	-.0300	-.1840	-.3220
20.000			.4530	-.1180	-.0470	-.2440			-.2320		-.0130				
40.000			.6510	.0810	.1390	-.2210			-.2340		-.0670	-.0700	.0200	-.0860	-.0690
55.000			.7270	.2090	.2830	.0670			.1180		.1850				
70.000			.7280	.2230	.3010	.1770			.1820		.1660	-.1780	-.1340	-.0230	-.0350
90.000		1.1680	.6520	.1660	.3390	.2630			.2620		.0380	-.2360	-.2050	-.0340	-.0567
120.000			.5250	.1420	.3660	.4850			.4320		-.0290	-.2880	-.2220	-.1000	-.0460
142.000										-.1730					
150.000			.4110	.1110	.3330	.7370			.5570		-.2510	-.2360	-.2180	-.1570	-.1020
157.000								.8140							
162.000									.4700						
165.000											-.3790	-.2000	-.1890	-.1540	-.1477
169.000									.3130						
172.000							.9640								
180.000	1.2890	.7630	.1910	.0680	.2330	.7800			.5590		-.5920	-.3330	-.3710	-.3690	-.3677

X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0610							.0500		-.0990
40.000	-.0850	.4640		.1190	.0830	-.2310	-.5130			.0300
70.000		-.0990	-.1130	-.1380	.1030	.0050	-.0660	-.0690		
90.000		-.0910	-.0650	.1180	.0340	.0190	-.0980	-.1080		
105.000				.2100	.0870	.0210	-.1250	-.1270		
110.000									-.1590	
120.000		-.1160	-.0580	.5830	.1250	-.1010	-.1710	.0020	-.0500	
135.000				.4210	.2320	-.2190	.7970	.1170		
150.000		-.1180	.0990	.2310	.0990	.0460	.2500	.1230		

MACH (2) = 1.247 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
169.000		-.0890		.2840	.3520	.1970	.2380	- 0743		
181.000		-.2310	.0270	.1580						

MACH 2 = 1.246 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0375	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3775	.9580	.0000	-.2650	-.0880	-.1540			-.1620		.0710	.1090	-.0140	-.1510	-.2560
20.000			.4040	-.1780	-.0570	-.1880			-.1720		.1010				
40.000			.5300	-.0490	.0700	-.2010			-.2150		-.0450	-.0140	.0070	-.1130	-.1500
55.000			.5700	.0160	.1570	.027			-.0010		-.0240				
70.000			.5600	.0150	.1680	.1370			.1120		-.0610	-.2420	-.2000	-.0820	-.0710
90.000		1....	.4950	-.0070	.2420	.2430			.1960		-.0780	-.3460	-.2850	-.1770	-.0790
107.000			.4200	-.0020	.3500	.4460			.3240		-.1440	-.3940	-.2720	-.1310	-.0810
142.000										-.3770					
150.000			.3690	.160	.3440	.7300			.5230		-.2570	-.3050	-.2650	-.1230	-.0940
157.000								.7730							
162.000									.4310						
165.000											-.1420	-.2570	-.2120	-.1170	-.0910
169.000									.3430						
178.000							.9990								
191.000	1.0387	.8210	.2270	.0330	.3120	.3430			.5940		-.1470	-.3140	-.2320	-.1210	-.0970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0490							.0080		-.1060
40.000	-.1080	.3510		.0200	-.0140	-.2720	-.2770			-.0240
70.000		-.1340	-.0990	-.0700	.0360	-.0340	-.1050	-.1110		
90.000		-.1040	-.0460	.0820	.0060	-.0250	-.1360	-.1300		
107.000				.1490	.0320	-.0260	-.1560	-.1290		
115.000									-.1910	
120.000		-.0930	.0750	.4220	.0360	-.1560	-.0940	-.0520	-.1110	
135.000				.5310	.2850	-.1550	.0150	.0390		
150.000		-.0635	.1310	.2860	.2350	.0150	.0840	.0300		
165.000		-.0570		.3330	.3930	.1400	.1241	-.1640		
180.000		-.1220	.0300	.2720						

AMES 11-7U7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB33)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4070	.9600	.0000	-.3860	-.2340	.0150			-.1040		-.0990	.1020	-.0080	-.1050	-.2370
20.000			.2690	-.3520	-.2420	-.0060			-.1020		-.0860				
40.000			.3680	-.2430	-.1490	-.0070			-.1090		-.0540	-.0270	-.0350	-.1500	-.1880
55.000			.3960	-.1930	-.0900	.0570			.0200		-.0870				
70.000			.3840	-.1930	-.1020	.1420			.1020		-.1100	-.3450	-.3090	-.1410	-.0800
90.000		.9390	.3270	-.1790	-.0610	.2180			.1450		-.1730	-.4060	-.3460	-.1310	-.0820
120.000			.2900	-.1190	.1160	.3880			.2160		-.2200	-.4590	-.3520	-.1750	-.0780
142.000										-.4570					
150.000			.2960	-.0690	.2190	.6810			.4600		-.3530	-.3550	-.2950	-.2030	-.0770
157.000								.6720							
162.000									.3550						
165.000											-.5940	-.3140	-.2680	-.2060	-.0760
169.000									.3440						
172.000							.9800								
180.000	1.4070	.8230	.2160	.0320	.2440	.8710			.6040		-.5310	-.4400	-.2220	-.2110	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0990							.0140		-.0870
40.000	-.0280	.2270		-.1010	-.1240	-.3330	-.2570			-.1160
70.000		-.1300	-.0670	-.0190	.0500	-.0730	-.1480	-.1410		
90.000		-.0940	.0060	.0590	-.0130	-.0690	-.1650	-.1420		
105.000				.0840	-.0140	-.0680	-.1710	-.1470		
110.000									-.2300	
120.000		-.0650	.1400	.2830	-.0420	-.2180	-.1090	-.1140	-.1770	
135.000				.6280	.3030	-.1740	-.1080	-.0700		
150.000		-.0480	.1670	.3540	.3690	-.0070	-.0370	-.0810		
165.000		-.0460		.3870	.4220	.1030	.0260	-.2470		
180.000		-.0460	.0390	.3520						

MACH (2) = 1.250 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3310	.9250	.0000	-.2810	-.0890	-.1220			-.1670		.1040	.1070	-.0180	-.1310	-.2680
20.000			.2700	-.3010	-.1370	-.0600			-.1440		.0720				
40.000			.2700	-.2740	-.1580	-.0630			-.0970		-.0740	-.0430	-.0990	-.2060	-.2450
55.000			.2450	-.2900	-.1880	.0160			.0010		-.1310				
70.000			.2160	-.3080	-.2230	.1090			.0450		-.2020	-.4180	-.3470	-.1950	-.0770
90.000		.7690	.1800	-.2940	-.1930	.1730			.0700		-.2360	-.4630	-.4240	-.1650	-.0760
120.000			.1840	-.2110	-.0130	.3040			.0840		-.3000	-.5090	-.4140	-.2190	-.0770

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5290					
150.000			.2330	-.0970	.1630	.5910			.3640		-.4790	-.4070	-.2760	-.2490	-.0700
157.000								.5420							
162.000									.2560						
165.000											-.6190	-.4070	-.2290	-.2440	-.1330
169.000									.3250						
172.000							.9180								
180.000	1.2510	.8290	.2180	.0450	.2650	.8390			.5800		-.5250	-.3970	-.3120	-.2180	-.1400

X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0360							.0020		-.0860
40.000	.0770	.0530		-.1740	-.1990	-.3020	-.2120			-.1890
70.000		-.0880	-.0390	.0050	.0300	-.1160	-.1790	-.1760		
90 000		-.0770	.0260	.0510	-.0180	-.1090	-.1980	-.1770		
105.000				.0340	-.0750	-.1260	-.1980	-.1880		
110.000									-.2500	
120.000		-.0760	.1270	.1990	-.1450	-.3180	-.1740	-.1790	-.2010	
135.000				.7400	.2620	-.2600	-.2530	-.2300		
150.000		-.0570	.0410	.3400	.3820	-.0250	-.1310	-.1810		
165.000		-.0920		.4400	.4580	.0250	-.0630	-.3070		
180.000		-.1220	.0410	.2570						

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2820	.9020	.0000	-.2770	-.0600	-.2630			-.2900		.0610	.0900	-.0210	-.1340	-.3220
20.000			.2180	-.3170	-.1010	-.2810			-.2390		.1360				
40.000			.1470	-.3510	-.2690	-.1570			-.1330		.0450	-.0870	-.2200	-.3210	-.2400
55.000			.0850	-.4080	-.3320	-.0030			-.0340		-.1780				
70.000			.0330	-.4350	-.3700	.0970			.0140		-.2480	-.4600	-.3990	-.2330	-.0740
90.000		.6010	.0130	-.4170	-.3350	.1490			.0140		-.3020	-.5250	-.4570	-.2050	-.0760
120.000			.0500	-.3080	-.1000	.2150			-.0450		-.3560	-.5560	-.4300	-.2660	-.1000
142.000										-.5940					
150.000			.1360	-.1330	.0680	.4520			.2310		-.5750	-.4710	-.3010	-.2640	-.2150
157.000								.4030							
162.000									.1740						
165.000											-.6350	-.4800	-.3120	-.3500	.2850
169.000									.2900						
172.000							.8050								

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2820	.7940	.1810	.0610	.2090	.7590			.5360		-.5610	-.3480	-.3460	-.3730	-.3730
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0520							.0180		-.1160					
40.000	.0210	-.0120		-.2150	-.2330	-.2330	-.2200			-.2620					
70.000		-.0010	-.0140	.0250	.0620	-.1060	-.1900	-.1990							
90.000		.0020	.0560	.0840	-.0030	-.1170	-.2030	-.1950							
105.000				.0650	-.1130	-.1400	-.2050	-.2120							
110.000									-.2950						
120.000		.0060	.1220	.1540	-.2120	-.3650	-.2140	-.2200	-.2600						
135.000				.7260	.2980	-.3060	-.3300	-.3460							
150.000		-.1690	-.0050	.1660	.1950	-.0540	-.1730	-.2340							
165.000		-.1400		.3200	.3710	-.0450	-.1380	-.3530							
180.000		-.3010	.0120	.1670											

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 25.5300 INCHES
LREF = 39.190 INCHES YMRP = .0000 INCHES
BREF = 39.490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.097 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2430	.8070	.0000	-.4680	-.2160	-.4070			.0960		-.0010	-.1070	-.2270	-.3190	-.3540
20.000			.3180	-.3100	-.2170	-.3310			-.0300		.0050				
40.000			.5170	-.1080	-.0220	-.1800			-.0970		-.0660	-.1080	-.1290	-.1600	-.1030
55.000			.5940	.0320	.1420	.1840			.2250		.1480				
70.000			.5920	.0470	.1770	.2400			.2610		.1210	-.3120	-.2280	-.1030	-.0810
90.000		1.0930	.5230	.0050	.2320	.3060			.2850		.0820	-.4000	-.2960	-.1270	-.1220
120.000			.4000	.0200	.2680	.4500			.3810		-.0520	-.4640	-.3350	-.1750	-.1690
141.000										-.2800					
150.000			.2850	-.0190	.2460	.6760			.4500		-.3700	-.3350	-.3340	-.2450	-.1740
157.000								.7270							
162.000									.3490						
165.000											-.4910	-.2820	-.3090	-.2220	-.1410
169.000									.1810						
172.000							.8890								
180.000	1.2400	.7010	.0640	-.0630	.1550	.7230			.4580		-.8220	-.4560	-.5200	-.5660	-.3930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1730							.0400		-.1060
40.000	.2920	.4290		.1770	.0370	-.3930	-.2860			-.1120
70.000		-.0240	-.1780	.0490	.1640	-.0360	-.1400	-.1430		
90.000		.0000	-.0920	.1480	.0980	-.0550	-.1770	-.1520		
105.000				.2350	.0690	-.0560	-.1980	-.1460		
110.000									-.2610	
120.000		-.0150	.0840	.5500	.0330	-.1560	-.1220	-.0650	-.1570	
135.000				.4390	.1740	-.2600	.0320	.0240		
150.000		.0300	.2020	.2420	.0570	.0130	.1170	.0210		
165.000		.0750		.3120	.3080	.1100	.1540	-.2000		
180.000		-.0340	.1000	.2170						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB34)

MACH (1) = 1.100 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2650	.6450	.0000	- 1940	-.2760	-.1810			.1720		.0570	-.0510	-.1540	-.2590	-.1980
20.000			.2700	-.3710	-.2430	-.2960			.1730		.0480				
40.000			.3970	-.2280	-.0960	-.3740			.1180		-.0130	-.0840	-.1300	-.1800	-.1510
55.000			.4440	-.1590	.0580	-.0980			.2240		.0770				
70.000			.4310	-.1540	.1870	.0280			.2060		.0260	-.3610	-.2890	-.1600	-.1130
90.000		.9750	.3660	-.1780	.2160	.1350			.1900		-.0370	-.4360	-.3650	-.1580	-.1250
120.000			.2900	-.1620	.2430	.3440			.2170		-.1740	-.5020	-.3550	-.1970	-.1100
142.000										-.5580					
150.000			.2370	-.1000	.2650	.6380			.4000		-.4550	-.3710	-.3300	-.2180	-.0970
157.000								.6640							
162.000									.3000						
165.000											-.7520	-.3380	-.3310	-.2030	-.0860
169.000									.2040						
172.000							.9130								
180.000	1.2650	.7340	.0660	-.0900	.2290	.7710			.4850		-.7790	-.5130	-.4220	-.2340	-.1620

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							-.0050		-.1110
40.000	.2450	.3270		-.0430	-.0120	-.4270	-.2290			-.1250
70.000		-.0200	-.1610	-.0030	.1000	-.1020	-.1970	-.1880		
90.000		.0120	-.0700	.0890	.0120	-.1130	-.2290	-.1800		
105.000				.1490	-.0240	-.1150	-.2360	-.1890		
110.000									-.3090	
120.000		.0120	.1750	.4170	-.0630	-.2090	-.1490	-.1240	-.2190	
135.000				.5500	.2090	-.2400	-.0450	-.0440		
150.000		.0290	.2400	.3180	.1760	-.0780	.0160	-.0650		
165.000		.0440		.3490	.3350	.0310	.0250	-.2700		
180.000		-.0110	.2040	.3040						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3280	.8080	.0000	-.5800	-.2620	-.1420			.1590		.0490	-.0540	-.1130	-.2150	.0570
20.000			.1160	-.5260	-.3450	-.1570			.1520		.0243				
40.000			.2240	-.4140	-.2560	-.1690			.1280		-.0320	-.1090	-.1700	-.2450	.0300
55.000			.2600	-.3580	-.1950	-.0480			.1710		-.0160				
70.000			.2530	-.3580	-.1920	.0400			.1510		-.0920	-.4350	-.3840	-.2340	-.1020
90.000		.8550	.2090	-.3410	-.1620	.1060			.1080		-.1560	-.4930	-.4510	-.2750	-.1220
127.000			.1730	-.2830	.1720	.2790			.0730		-.2[illegible]	-.5603	-.4090	-.1710	-.1240

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
142.000										-.6860					
150.000			.1700	-.2020	.2460	.3895			.3300		-.5300	-.4690	-.3500	-.1930	-.0720
157.000								.5620							
162.000									.2160						
165.000											-.8930	-.4380	-.31.	-.1970	-.0760
169.000									.1990						
172.000							.9000								
180.000	1.3280	.7610	.0810	-.1010	.2740	.7960			.4930		.750	-.6440	-.2630	-.2060	-.0750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1960							-.0060		-.0770
40.000	.1750	.1800		-.1100	-.1300	-.3090	-.2140			-.1690
70.000		-.0290	- 1000	-.0020	.0490	-.1500	-.2430	-.2090		
90.000		.0100	.0160	.0450	-.0290	-.1610	-.2520	-.2100		
105.000				.0670	-.0620	-.1640	-.2490	-.2310		
110.000									-.3400	
120.000		.0300	.2050	.2450	-.1580	-.2580	-.1950	-.1650	-.2780	
135.000				.6280	.2140	-.2780	-.1630	-.1490		
150.000		.0490	.2660	.3910	.2880	-.1260	-.1460	-.1690		
165.000		.0390		.4010	.3570	-.0250	-.0940	-.3450		
180.000		.0390	.2300	.3480						

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.2770	.8290	.0000	-.4840	-.2610	-.2180			.1780		.5630	-.3550	-.1600	-.2150	-.1780
20.000			.1330	-.4900	-.3110	-.1680			.1710		.5810				
40.000			.1330	-.4590	-.3330	-.1200			.1550		.6020	-.1550	-.2380	-.3150	-.2190
55.000			.1120	-.4820	-.3430	-.1260			.0910		.7770				
70.000			.0810	-.4990	-.3870	-.0280			-.0590		.8770	-.4960	-.4550	-.2610	-.0910
90.000		.6840	.0460	-.4760	-.3630	.0330			-.0800		.8770	-.5560	-.5120	-.2035	-.0900
120.000			.0440	-.3890	-.0110	.1770			-.0650		.8490	-.5340	-.4430	-.1890	-.0830
142.000										-.7550					
150.000			.0960	-.2430	.1110	.4910			.2340		.8410	-.5980	-.3080	-.2270	-.1080
157.000								.4260							
162.000									.1150						
165.000											.8320	-.4760	-.3130	-.2310	-.1240
169.000									.1810						
172.000							.8360								

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB34)

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2770	.7450	.0730	-.0620	.2140	.7600			.4710		-.7580	-.4920	-.4030	-.2360	-.1710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2090							-.0040		-.0560
40.000	.1490	-.0140		-.1270	-.1700	-.1980	-.1890			-.2130
70.000		.0090	.0200	.0010	-.0010	-.2030	-.2890	-.2660		
90.000		.0570	.0890	.0450	-.0660	-.2130	-.2980	-.2750		
105.000				.0550	-.1360	-.2120	-.3010	-.2940		
110.000									-.3780	
120.000		.0920	.2440	.1490	-.2560	-.3430	-.2590	-.2770	-.3390	
135.000				.6890	.1740	-.3900	-.3380	-.2710		
150.000		.0920	.2680	.4790	.3200	-.1620	-.2660	-.2860		
165.000		.0570		.4350	.4030	-.1200	-.1840	-.4190		
180.000		.0070	.1940	.2990						

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2240	.7950	.0000	-.4610	-.2190	-.4220			.0990		.0060	-.1050	-.2230	-.2630	-.3580
20.000			.0720	-.5130	-.2340	-.3980			.1140		-.0370				
40.000			.0050	-.5420	-.4220	-.2010			.0960		-.1150	-.2460	-.3630	-.4330	.0400
55.000			-.0540	-.6020	-.4890	-.1220			.0440		-.1350				
70.000			-.1170	-.6290	-.5260	-.0440			-.0960		-.2430	-.5670	-.5320	-.2810	-.0140
90.000		.5010	-.1350	-.6090	-.5060	-.0090			-.1460		-.3680	-.6250	-.5800	-.2420	-.0370
120.000			-.0950	-.4950	-.2060	.0720			-.2040		-.5850	-.7390	-.4290	-.2630	-.0960
142.000										-.8250					
150.000			-.0080	-.2750	-.0320	.3630			.0940		-.7950	-.6460	-.4250	-.3090	-.1840
157.000								.2780							
162.000									.0210						
165.000											-.8740	-.6130	-.4690	-.4200	-.2840
169.000									.1440						
172.000							.7230								
180.000	1.2240	.7060	.0330	-.0510	.1300	.6870			.4220		-.7560	-.4850	-.5000	-.5840	-.4230

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1600							.0150		-.0780
40.000	.0900	.0630		-.2740	-.2520	-.2440	-.2330			-.2750

MACH (1) = 1.099 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0300	.0210	.0030	.0000	-.2250	-.3170	-.3050		
90.000		.0630	.0930	.0490	-.0780	-.2440	-.3270	-.3150		
105.000				.0310	-.1970	-.2490	-.3320	-.3310		
110.000									-.4000	
120.000		.0780	.2010	.0940	-.3230	-.4070	-.3110	-.3290	-.3830	
135.000				.6860	.2220	-.4160	-.4380	-.3710		
150.000		.0430	.1740	.2300	.0050	-.2360	-.3530	-.3970		
165.000		-.0090		.3220	.3000	-.2320	-.2870	-.4630		
180.000		-.0520	.0930	.2100						

MACH (2) = 1.249 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2810	.9140	.0000	-.2470	-.0410	-.2540			-.3070		-.3580	.0670	.0010	-.1640	-.3050
20.000			.4770	-.0990	-.0420	-.2460			-.2550		-.3710				
40.000			.6750	.1060	.1460	-.2210			-.2620		-.3420	-.0490	-.0670	-.0500	-.0420
55.000			.7470	.2360	.2830	.0430			.0700		.2070				
70.000			.7400	.2370	.2880	.1290			.1620		.1780	-.1770	-.1410	-.0410	-.0400
90.000		1.1620	.6530	.1670	.3210	.2490			.2600		.2330	-.2400	-.2000	-.0620	-.0690
120.000			.5010	.1140	.3420	.4590			.4340		-.2520	-.2940	-.2380	-.1870	-.1140
142.000										-.1740					
150.000			.3780	.0450	.3040	.7160			.5400		-.2910	-.2730	-.2360	-.1740	-.1230
157.000								.8010							
162.000									.4510						
165.000											-.3320	-.2290	-.2100	-.1630	-.1000
169.000									.2840						
172.000							.9510								
180.000	1.2810	.7470	.1590	.0150	.2030	.7540			.5320		-.5790	-.3660	-.3860	-.4050	-.3870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0900							.0590		-.1020
40.000	-.0500	.4890		.1460	.1300	-.2140	-.5180			.0430
70.000		-.0460	-.1240	-.2040	.0800	-.0140	-.0820	-.0860		
90.000		-.1020	-.0880	.0960	.0010	.0120	-.1150	-.1310		
105.000				.1960	.0850	.0020	-.1430	-.1520		
110.000									-.1750	
120.000		-.1360	-.0880	.5920	.1310	-.1280	-.1180	-.0490	-.0660	
135.000				.3630	.2040	-.2470	.0210	.0890		
150.000		-.1210	.0780	.1150	.0780	-.0060	.1550	.1090		

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB34)

MACH (2) = 1.[illegible] BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0860		.2500	.3380	.1480	.1980	-.0950		
180.000		-.2090	.0020	.1750						

MACH (2) = 1.250 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3280	.9900	.0000	-.2950	-.1170	-.1580			-.1760		-.0880	.1540	.0380	-.1310	-.2340
20.000			.4240	-.1870	-.0630	-.2070			-.1830		.0520				
40.000			.5450	-.0400	.0680	-.2060			-.2680		.0000	-.0520	.0410	-.0850	-.1160
55.000			.5810	.0300	.1440	-.0070			-.0190		-.0360				
70.000			.5620	.0200	.1420	.0990			.0970		-.0690	-.2310	-.1970	-.0940	-.0770
90.000		1.0460	.4830	-.0090	.1740	.2130			.1880		-.0930	-.3630	-.2720	-.0930	-.0900
120.000			.3890	-.0210	.3100	.4250			.3250		-.1610	-.4060	-.2980	-.1430	-.0930
142.000										-.3780					
150.000			.3300	-.0370	.3010	.7080			.5030		-.3200	-.3430	-.2900	-.1940	-.1120
157.000								.7620							
162.000									.4080						
165.000											-.5520	-.2810	-.2890	-.1800	-.1060
169.000									.3120						
172.000							.9820								
180.000	1.3280	.7820	.1740	-.0110	.2480	.8170			.5650		-.5640	-.4130	-.3450	-.2360	-.1430

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0330							.0160		-.0930
40.000	-.0980	.3700		.0490	.0210	-.2550	-.2720			-.0100
70.000		-.1480	-.1300	-.1220	.0640	-.0500	-.1240	-.1360		
90.000		-.1170	-.0810	.0650	-.0230	-.0370	-.1510	-.1590		
105.000				.1350	.0170	-.0480	-.1720	-.1620		
110.000									-.2090	
120.000		-.1000	.0260	.4320	.0460	-.1790	-.1150	-.0820	-.1170	
135.000				.4910	.2520	-.1980	-.0170	.0170		
150.000		-.0730	.1190	.2470	.1970	-.0260	.0610	.0030		
165.000		-.0600		.3000	.3530	.1080	.0900	-.1850		
180.000		-.1280	.0180	.2530						

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	.4110	.9540	.0000	-.3990	-.2560	-.0190			-.1450		-.1940	.1470	.0400	-.0920	-.2040
20.000			.2560	-.3690	-.2660	-.0400			-.1420		-.1740				
40.000			.3670	-.2540	-.1770	-.0500			-.1370		-.1290	-.0310	-.0170	-.1340	-.1650
55.000			.4010	-.1940	-.1100	.0560			.0020		-.1060				
70.000			.3860	-.1930	-.1220	.1340			.0920		-.1250	-.3890	-.3180	-.1550	-.0880
90.000		.9530	.3340	-.1860	-.0850	.2140			.1560		-.1860	-.4280	-.3430	-.1430	-.0870
120.000			.2680	-.1420	.0370	.3800			.2330		-.2360	-.4760	-.3840	-.1700	-.0850
142.000										-.4680					
150.000			.2530	-.1200	.1610	.6640			.4450		-.3770	-.3870	-.3210	-.2210	-.0770
157.000								.6520							
162.000									.3290						
165.000											-.6170	-.3430	-.2960	-.2300	-.0730
169.000									.3110						
172.000							.9580								
180.000	1.4110	.7870	.1670	-.0210	.1620	.8520			.5690		-.5580	-.4690	-.2450	-.2380	-.0620

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1070							.0100		-.0730
40.000	.0080	.2330		-.0870	-.0830	-.3300	-.2450			-.0990
70.000		-.1350	-.1030	-.0680	.0310	-.0830	-.1590	-.1710		
90.000		-.1020	-.0300	.0450	-.0350	-.0870	-.1860	-.1700		
105.000				.0360	-.0340	-.0980	-.1910	-.1730		
110.000									-.2460	
120.000		-.0680	.1220	.2660	-.0350	-.2330	-.1340	-.1330	-.1920	
135.000				.5630	.2780	-.1920	-.1180	-.0880		
150.000		-.0480	.1690	.3130	.3240	-.0300	-.0600	-.1030		
165.000		-.0450		.3370	.3770	.0810	.0010	-.2610		
180.000		-.0440	.0720	.3150						

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3230	.9450	.0000	-.2860	-.0830	-.1590			-.1950		.0000	.1240	.0160	-.1110	-.2540
20.000			.2800	-.3100	-.1250	-.0950			-.1710		-.1200				
40.000			.2830	-.2830	-.1770	-.0970			-.1180		-.1510	-.0180	-.0830	-.1900	-.2320
55.000			.2590	-.2930	-.2170	-.0060			-.0130		-.1610				
70.000			.2190	-.3130	-.2510	.0950			.0380		-.2040	-.4450	-.3350	-.2120	-.0820
90.000		.7660	.1710	-.3040	-.2150	.1670			.0690		-.2460	-.4790	-.4390	-.1770	-.0810
120.000			.1520	-.2320	-.0750	.3000			.0820		-.3150	-.4230	-.3160	-.2000	-.0700

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB34)

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
142.000										-.5420					
150.000			.1930	-.1370	.0970	.5780			.3450		-.4[illegible]	-.4330	-.2990	-.2690	-.0670
157.000								.5320							
162.000									.2320						
165.000											-.[illegible]	-.4340	-.2530	-.2640	-.1260
169.000									.2980						
172.000							.9030								
180.000	1.3230	.7920	.1740	-.7030	.2050	.8140			.5490		-.5[illegible]	-.4140	-.3400	-.2340	-.1440

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0900							.0060		-.0770
40.000	.1010	.0470		-.1500	-.1320	-.2540	-.1740			-.1610
70.000		-.0740	-.0740	-.0280	.0130	-.1300	-.1900	-.1400		
90.000		-.0660	.0010	.0340	-.0470	-.1250	-.2110	-.1400		
105.000				.0320	-.0790	-.1380	-.2080	-.1660		
110.000									-.2620	
120.000		-.0690	.1200	.1750	-.1410	-.3250	-.1660	-.1690	-.2190	
135.000				.7370	.2560	-.2690	-.2560	-.1850		
150.000		-.0570	.0490	.3580	.3530	-.0500	-.1540	-.2000		
165.000		-.0850		.4350	.4540	.0040	-.0850	-.3190		
180.000		-.1360	.0150	.2520						

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
.000	1.2730	.9110	.0000	-.2460	-.0600	-.2700			-.3070		-.[illegible]	.1230	-.0030	-.1170	-.3080
20.000			.2220	-.3150	-.0920	-.2840			-.2680		.[illegible]				
40.000			.1500	-.3490	-.2730	-.1780			-.1580		-.[illegible]	-.0720	-.2020	-.3030	-.2290
55.000			.0900	-.4080	-.3380	-.0460			-.0470		-.[illegible]				
70.000			.0320	-.4380	-.3750	.0760			.0080		-.[illegible]	-.4810	-.3920	-.2430	-.0730
90.000		.5940	.0040	-.4280	-.3430	.1440			.0170		-.[illegible]	-.5280	-.4750	-.2080	-.0750
120.000			.0270	-.3280	-.1280	.2180			-.0410		-.[illegible]	-.5620	-.4520	-.2600	-.0350
142.000										-.6050					
150.000			.1020	-.1760	.0420	.4430			.2180		-.5[illegible]	-.4810	-.3180	-.2860	-.2010
157.000								.3920							
162.000									.1540						
165.000											-.5[illegible]	-.4960	-.3280	-.3610	-.[illegible]
169.000									.2640						
172.000							.7850								

AMES 11-707 IA9 OBA + T3 + T9 ORBITER FUSELAGE (RBM834)

MACH (2) = 1.247 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0402	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2730	.7550	.1410	.0040	.1790	.7270			.5060		-.5770	-.3710	-.3820	-.4130	-.4000
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1140							.0270		-.1110					
40.000	.5525	-.0230		-.1990	-.2170	-.2190	-.2060			-.2540					
70.000		-.0180	-.0620	-.0050	.0390	-.1220	-.2120	-.2240							
90.000		-.0050	.0200	.0620	-.0310	-.1330	-.2250	-.2210							
105.000				.0500	-.1080	-.1500	-.2290	-.2350							
110.000									-.3090						
120.000		-.0060	.0990	.1460	-.2000	-.3830	-.2200	-.2390	-.2800						
135.000				.7480	.2840	-.2980	-.3220	-.3070							
150.000		-.1000	-.0100	.2190	.1330	-.1110	-.2280	-.2620							
165.000		-.1440		.3590	.4030	-.0480	-.1510	- 3650							
180.000		-.2200	-.0090	.1740											

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB35) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.102 BETAT (1) = -8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.271:	.3200	.3953	.5120
PHI															
.000	1.2390	.8240	.0000	-.4580	-.2380	-.4350			.0590		.0080	-.0830	-.1930	-.2850	-.3580
20.000			.3310	-.3090	-.2330	-.4000			-.0610		.0160				
40.000			.5390	-.0960	-.0280	-.1690			-.0850		-.0250	-.0790	-.0960	-.1280	-.0840
55.000			.6160	.0410	.1300	.2120			.2380		.1630				
70.000			.6070	.0560	.1430	.2520			.2710		.1290	-.2990	-.2140	-.1120	-.0930
90.000		1.0880	.5180	-.0190	.2020	.3040			.3020		.0880	-.3890	-.2670	-.1330	-.1350
120.000			.3640	-.0720	.2140	.4340			.4070		-.0620	-.4630	-.3730	-.2220	-.2260
142.000										-.2780					
150.000			.2290	-.1370	.1740	.6540			.4320		-.3960	-.3610	-.3715	-.2640	-.3010
157.000								.7130							
162.000									.3290						
165.000											-.4845	-.2950	-.3420	-.2340	-.1510
169.000									.1400						
172.000							.8700								
180.000	1.2390	.6490	-.0050	-.1730	.0840	.6930			.4180		-.8400	-.4860	-.5600	-.6380	.3740

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1990							.0560		-.0920
40.000	.3240	.4650		.2220	.0710	-.3780	-.2870			-.1130
70.000		-.0380	-.2360	-.1480	.1200	-.0560	-.1520	-.1460		
90.000		-.0140	-.1830	.0900	.0190	-.0630	-.1930	-.2040		
105.000				.1640	.0170	-.0730	-.2210	-.2010		
110.000									-.0300	
120.000		-.0610	-.0440	.5530	.0220	-.1770	-.1930	-.0890	-.1670	
135.000				.3860	.1340	-.3020	-.0110	-.0020		
150.000		-.0110	.1550	.1950	.0190	-.0620	.0820	-.0030		
165.000		.0270		.2680	.2810	.0550	.1170	-.2190		
180.000		-.0520	.0747	.2010						

MACH (1) = 1.095 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3160	.8330	.0000	-.5470	-.3090	-.1890			.1650		.0500	-.0370	-.1330	-.2240	-.1590
20.000			.2450	-.4120	-.2960	-.2470			.1760		.0450				
40.000			.4060	-.2430	-.1270	-.3850			.1330		.0080	-.0600	-.1060	-.1410	-.1310
55.000			.4650	-.1550	-.0140	-.1250			.2520		.1090				
70.000			.4490	-.1590	-.0200	.0040			.2390		.0500	-.3540	-.2850	-.1790	-.1350
90.000		.9980	.3670	-.1910	.0850	.1310			.2270		-.0110	-.4350	-.3490	-.1820	-.1470
120.000			.2570	-.2020	.2380	.3450			.2560		-.1690	-.5060	-.4070	-.2290	-.1390
142.000										-.5280					
150.000			.1860	-.2270	.2170	.6270			.3790		-.4680	-.4000	-.3610	-.2360	-.1130
157.000								.6520							
162.000									.2740						
165.000											-.7510	-.3530	-.3500	-.2020	-.1050
169.000									.1590						
172.000							.9000								
180.000	1.3160	.7070	.0130	-.1950	.1790	.7560			.4450		-.8040	-.5230	-.4530	-.2460	-.1920

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2100							.0050		-.0960
40.000	.2500	.3480		.1230	.0030	-.4170	-.2370			-.0970
70.000		-.0420	-.2330	-.1030	.0760	-.1200	-.2200	-.2280		
90.000		-.0090	-.1620	.0370	-.0220	-.1290	-.2580	-.2250		
105.000				.1270	-.0500	-.1360	-.2730	-.2240		
110.000									-.3320	
120.000		-.0140	.0930	.4190	-.0770	-.2300	-.2030	-.1650	-.2230	
135.000				.4840	.1610	-.2970	-.0910	-.0710		
150.000		.0210	.1640	.2480	.1220	-.1420	-.0250	-.0950		
165.000		.0420		.2800	.3020	-.0280	-.0200	-.2940		
180.000		.0340	.1620	.2660						

MACH (1 = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3280	.8010	.0000	-.6180	-.1720	-.1930			.1570		.0680	-.0250	-.0920	-.1650	.0540
20.000			.0800	-.5620	-.3480	-.2130			.1670		.0470				
40.000			.2180	-.4250	-.2710	-.2150			.1690		.0020	-.0740	-.1340	-.1880	.0470
55.000			.2700	-.3540	-.2040	-.0790			.2080		.0220				
70.000			.2640	-.3540	-.2360	.0170			.1880		-.1500	-.4150	-.3690	-.2600	-.0890
90.000		.8580	.2060	-.3430	-.2080	.1010			.1490		-.1280	-.4840	-.4300	-.2290	-.1000
120.000			.1470	-.3060	-.0300	.2830			.1160		-.2810	-.5620	-.4480	-.1790	-.0730

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM035)

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6780					
150.000			.1350	-.2840	.1530	.5860			.3220		-.5580	-.4910	-.3670	-.1840	-.0650
157.000								.5610							
162.000									.2050						
165.000											-.8460	-.4480	-.3240	-.1920	-.0680
169.000									.1690						
172.000							.8940								
180.000	1.3280	.7290	.0230	-.1800	.2030	.7840			.4600		-.7870	-.6660	-.2700	-.2040	-.0650

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1790							-.0080		-.0400
40.000	.1600	.1770		.0050	-.0970	-.2390	-.2040			-.1350
70.000		-.0400	-.2120	-.0920	.0130	-.1570	-.2420	-.2280		
90.000		.0050	-.0890	-.0040	-.0940	-.1660	-.2630	-.2310		
105.000				.0320	-.0890	-.1600	-.2690	-.2460		
110.000									-.3490	
120.000		.0200	.1470	.2320	-.1520	-.2730	-.2120	-.2070	-.2700	
135.000				.5350	.2010	-.3000	-.1820	-.1600		
150.000		.0270	.2010	.3500	.2400	-.1580	-.1680	-.1970		
165.000		.0350		.3540	.3080	-.0580	-.1250	-.3590		
180.000		.0370	.1690	.2980						

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3080	.8270	.0000	-.5320	-.2980	-.1860			.1800		.0610	-.0420	-.1310	-.1760	-.0940
20.000			.0810	-.5420	-.3180	-.1610			.1770		.0300				
40.000			.1060	-.5050	-.3700	-.1240			.1620		-.0280	-.1280	-.2050	-.2750	.0310
55.000			.1030	-.4990	-.3660	-.0930			.1330		-.0470				
70.000			.0810	-.5060	-.4100	-.0200			-.0120		-.1490	-.4860	-.4480	-.3080	-.0785
90.000		.6990	.0460	-.4870	-.3790	.0460			-.0410		-.2480	-.5490	-.5080	-.2230	-.0750
120.000			.0240	-.4100	-.1710	.1920			-.0280		-.4940	-.6340	-.4780	-.1830	-.0680
142.000										-.7590					
150.000			.0510	-.3270	.0690	.4910			.2210		-.6880	-.6270	-.3160	-.2140	-.0830
157.000								.4220							
162.000									.0980						
165.000											-.8820	-.6060	-.2940	-.2240	-.1
169.000									.1460						
172.000							.9220								

MACH (1) = 1.101 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3080	.7080	.0110	-.1830	.1670	.7430			.4320		-.7870	-.5260	-.4220	-.2350	-.1870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2110							-.0090		-.0660
40.000	.1380	-.0300		-.0690	-.1610	-.2140	-.1800			-.1960
70.000		-.0340	-.0360	-.0210	-.0090	-.2170	-.3100	-.2990		
87.000		.0000	.0560	.0300	-.0780	-.2200	-.3200	-.3080		
103.000				.0340	-.1230	-.2210	-.3200	-.3200		
110.000									-.3860	
120.000		.0350	.2070	.1590	-.2260	-.3450	-.2730	-.2950	-.3500	
135.000				.6360	.1740	-.3870	-.3210	-.2780		
150.000		.0470	.2400	.4510	.2940	-.1880	-.2890	-.3010		
165.000		.0180		.4090	.3630	-.1280	-.2110	-.4200		
180.000		-.0130	.1600	.2640						

MACH (1) = 1.106 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2210	.8080	.0000	-.4650	-.2420	-.4100			.0150		.0300	-.0790	-.1940	-.2250	-.3280
20.000			.0710	-.5250	-.2620	-.4130			.1100		-.0100				
40.000			.0690	-.5500	-.4510	-.2380			.1120		-.0690	-.2090	-.3200	-.3860	-.0200
55.000			-.0450	-.6040	-.5100	-.1250			.0690		-.1050				
70.000			-.1070	-.6300	-.5530	-.0360			-.0730		-.2130	-.5390	-.5050	-.3100	-.0230
90.000		.5170	-.1320	-.6140	-.5240	.0140			-.1220		-.3430	-.6070	-.5510	-.2470	-.0470
120.000			-.1180	-.5140	-.2260	.0970			-.1740		-.5830	-.7120	-.4420	-.2400	-.0880
142.000										-.8220					
150.000			-.0530	-.3620	-.0800	.3610			.0920		-.8060	-.6660	-.4230	-.2930	-.1510
157.000								.2760							
162.000									.0090						
165.000											-.8810	-.6470	-.4740	-.3920	-.2340
169.000									.1220						
172.000							.7060								
180.000	1.2210	.6550	-.0250	-.1710	.0470	.6620			.3920		-.7880	-.5160	-.5410	-.6380	-.3970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1950							.0210		-.0910
40.000	.1060	.0740		-.2030	-.2120	-.2100	-.2120			-.2800

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB39)

MACH (1) = 1.106 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0270	-.0470	-.0200	-.0190	-.2300	-.3140	-.2890		
90.000		.0220	.0320	.0290	-.0930	-.2420	-.3350	-.2990		
105.000				.0340	-.1680	-.2430	-.3310	-.3220		
110.000									-.3930	
120.000		.0540	.1770	.1020	-.2950	-.4080	-.3040	-.3150	-.3820	
135.000				.6860	.2140	-.3930	-.4010	-.3340		
150.000		.0320	.1590	.2830	.0060	-.2440	-.3860	-.4040		
165.000		.0520		.3100	.2740	-.2090	-.3010	-.4590		
180.000		-.0640	.0790	.1990						

MACH (2) = 1.248 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	.9570	.0000	-.2350	-.0620	-.2660			-.2730		-.175[illegible]	-.0890	.0130	-.1400	-.2620
20.000			.5030	-.1030	-.0630	-.2620			-.1800		-.127[illegible]				
40.000			.7150	.1230	.1380	-.2320			-.1650		-.069[illegible]	-.0360	-.0690	.0180	-.0240
55.000			.7870	.2550	.2750	.0160			.0560		.196[illegible]				
70.000			.7640	.2530	.2630	.0780			.1880		.153[illegible]	-.1830	-.1580	-.0730	-.0500
90.000		1.1550	.6480	.1630	.2840	.1530			.2590		.091[illegible]	-.2580	-.2230	-.1010	-.0820
120.000			.4610	.0780	.2850	.4080			.4380		-.018[illegible]	-.3130	-.2750	-.1660	-.1450
142.000										-.1760					
150.000			.3240	-.0430	.2530	.6780			.5130		-.305[illegible]	-.2950	-.2660	-.2080	-.1500
157.000								.7800							
162.000									.4230						
165.000											-.40[illegible]	-.2150	-.2480	-.1920	-.1240
169.000									.2420						
172.000							.9270								
180.000	1.2620	.6900	.1030	-.0650	.1650	.7020			.4920		-.621[illegible]	-.3950	-.4020	-.4590	-.3980

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1750							.0730		-.1180
40.000	-.0140	.5160		.2430	.1730	-.2030	-.5160			.0530
70.000		-.0750	-.1660	-.2600	-.0070	-.0450	-.1080	-.1200		
90.000		-.0840	-.1300	.0550	-.0410	-.0150	-.1460	-.1650		
105.000				.1630	.0680	-.0700	- 1690	-.1830		
110.000									-.2140	
120.000		-.1630	-.1300	.6010	.1180	-.1470	-.1490	-.1290	-.0930	
135.000				.3150	.1660	-.2860	-.0850	.0470		
[illegible]		-.115	.064[illegible]	.117[illegible]	.0440	-.0920	.0060	.0760		

AMES 11-7G7 IA9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 1.248 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0830		.1960	.3130	.0760	.1500	-.1210		
180.000		-.1850	-.0070	.1690						

MACH (2) = 1.244 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3920	.9890	.0000	-.3390	-.1720	-.1180			-.1840		-.1260	.1600	.0620	-.1210	-.2020
20.000			.4030	-.2290	-.1420	-.2200			-.1760		.0010				
40.000			.5680	-.0570	.0320	-.2270			-.3110		.0170	-.0150	.0640	-.0760	-.0660
55.000			.6160	.0260	.1200	-.0380			-.0430		.1750				
70.000			.5850	.0060	.0970	.0240			.0810		-.0710	-.2300	-.2040	-.1150	-.0950
90.000		1.0780	.4780	-.0350	.1190	.1490			.1850		-.1050	-.2890	-.2690	-.1310	-.1160
120.000			.3370	-.0640	.1610	.3900			.3420		-.1840	-.4190	-.3020	-.1680	-.1240
142.000										-.3780					
150.000			.2630	-.1220	.1930	.6810			.4780		-.3520	-.3970	-.3210	-.2100	-.1260
157.000								.7340							
162.000									.3810						
165.000											-.5690	-.3150	-.3220	-.1950	-.1110
169.000									.2690						
172.000							.9550								
180.000	1.3920	.7250	.1040	-.0840	.1130	.7900			.5260		-.5930	-.4290	-.3770	-.2520	-.1780

X/LB	.5873	.6626	.7380	.7869	.8283	.8846	.9262	.9639	1.0015	1.0392
PHI										
.000	.1260							.0100		-.0850
40.000	-.0820	.4010		.0620	.0960	-.2390	-.3150			.0000
70.000		-.1540	-.1640	-.1970	.0060	-.0750	-.1450	-.1740		
90.000		-.1300	-.1160	.0460	-.0620	-.0640	-.1820	-.1960		
105.000				.1360	.0010	-.0920	-.2020	-.2060		
110.000									-.2300	
120.000		-.1130	-.0360	.4560	.0390	-.2070	-.1600	-.1240	-.1390	
135.000				.4300	.2030	-.2390	-.0770	-.0190		
150.000		-.0750	.1130	.1880	.1380	-.0780	.0190	-.0330		
165.000		-.0620		.2300	.3110	.0570	.0510	-.2050		
180.000		-.1090	.0460	.2270						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM033)

MACH (2) = 1.250 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2459	.2711	.3200	.3953	.5120
PHI															
.000	1.4110	.9680	.0000	-.3980	-.2620	-.0250			-.1750		-.[illegible]	.2020	.0780	-.0720	-.1530
20.000			.2670	-.3820	-.2890	-.0520			-.1770		-.[illegible]				
40.000			.3870	-.2560	-.2060	-.0670			-.1690		-.[illegible]	.0560	-.0030	-.1130	-.1180
55.000			.4230	-.1810	-.1200	.0150			-.0140		-.[illegible]				
70.000			.4080	-.1810	-.1260	.0710			.0840		-.[illegible]	-.2970	-.2760	-.1800	-.1090
90.000		.9610	.3440	-.1860	-.1000	.1900			.1620		-.[illegible]	-.4360	-.3390	-.1720	-.1100
120.000			.2530	-.1620	-.0300	.3690			.2520		-.[illegible]	-.4790	-.4160	-.1800	-.0960
142.000										-.4790					
150.000			.2120	-.1690	.0940	.6520			.4220		-.[illegible]	-.4200	-.3530	-.2150	-.0690
157.000								.6450							
162.000									.3090						
165.000											-.[illegible]	-.3640	-.3330	-.2300	-.0650
169.000									.2700						
172.000							.9540								
180.000	1.4110	.7650	.1090	-.0810	.1110	.8300			.5260		-.[illegible]	-.4940	-.2750	-.2700	-.0590

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1180							.0050		-.0690
40.000	.0510	.2390		-.0580	-.0440	-.3120	-.2150			-.0970
70.000		-.1340	-.1470	-.1310	-.0210	-.1070	-.1860	-.2140		
90.000		-.1030	-.0870	.0210	-.0980	-.1070	-.2100	-.2070		
105.000				.0640	-.0450	-.1330	-.2190	-.2160		
110.000									-.2690	
120.000		-.0710	.0890	.2830	-.0440	-.2630	-.1810	-.1600	-.2140	
135.000				.4890	.2460	-.2140	-.1420	-.1190		
150.000		-.0490	.1480	.2910	.2600	-.0660	-.0830	-.1310		
165.000		-.0460		.2910	.3420	.0430	-.0300	-.2810		
180.000		-.0440	.0910	.2780						

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2459	.2711	.3200	.3953	.5120
PHI															
.000	1.3860	.9870	.0000	-.3340	-.1870	-.1220			-.1820		-.[illegible]	.1630	.0540	-.0840	-.2030
20.000			.2410	-.3670	-.2630	-.0490			-.1870		-.[illegible]				
40.000			.2670	-.3240	-.2490	-.0610			-.1650		-.[illegible]	.0470	-.0560	-.1620	-.1900
55.000			.2570	-.3170	-.2630	-.0390			-.0260		-.[illegible]				
70.000			.2200	-.3260	-.2880	.0840			.0520		-.[illegible]	-.4520	-.3190	-.2250	-.[illegible]
90.000		.8030	.1690	-.3240	-.2510	.1800			.0930		-.[illegible]	-.4990	-.4060	-.1890	-.[illegible]
120.000			.1240	-.2690	-.1370	.2140			.1130		-.[illegible]	-.5260	-.4680	-.[illegible]	-.1630

MACH (2) = 1.248 BETAT (4) = 4.100

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
142.000										-.5470					
[illegible]			.1390	-.1950	.0260	.5660			.3300		-.[illegible]	-.4560	-.3290	-.2860	-.0640
157.000								.5250							
162.000									.2120		-.[illegible]	-.4540	-.2840	-.2770	-.0950
165.000									.2620						
169.000							.8810								
172.000									.5090		-.[illegible]	-.4460	-.3620	-.2460	-.1440
180.000	1.3960	.7250	.1040	-.0710	.1190	.7860									

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0382
PHI										
.000	.1200							.0100		-.0870
[illegible]	.1430	[illegible]		-.0780	-.0990	-.2440	-.1630			-.1680
70.000		-.0950	-.1340	-.1000	-.0360	-.1390	-.2170	-.2090		
90.000		-.[illegible]	-.0430	.0050	-.0950	-.1500	-.2340	-.2150		
105.000				.0280	-.0960	-.1660	-.2300	-.2070		
110.000									-.2780	
120.000		-.0120	.1120	.1520	-.1280	-.3330	-.2190	-.1770	-.2430	
135.000				.5990	.2550	-.2720	-.2490	-.2200		
150.000		-.0520	.1210	.3740	.3360	-.0740	-.1690	-.2120		
165.000		-.0710		.3810	.4040	-.0060	-.1010	-.3270		
180.000		-.1130	.0360	.2220						

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSE[illegible] DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
.000	1.2590	.9420	.0000	-.2520	-.0720	-.2770			-.2490		-.[illegible]	-.0580	.0270	-.0860	-.2600
20.000			.2380	-.3340	-.1020	-.2810			-.2730		-.[illegible]				
40.000			.1710	-.3580	-.[illegible]950	-.2220			-.1900		-.[illegible]	-.0510	-.1600	-.2500	-.2580
55.000			.1090	-.4080	-.[illegible]	[illegible]0990			-.0600		-.[illegible]				
70.000			.0400	-.4370	-.3920	.0360			.0020		-.[illegible]	-.4830	-.3680	-.2550	-.0850
90.000		.5920	-.0070	-.4350	-.3580	.1370			.0230		-.[illegible]	-.5340	-.4690	-.2040	-.0760
120.000			-.0040	-.3490	-.2250	.2230			-.0270		-.[illegible]	-.5730	-.4790	-.2330	-.0790
142.000										-.6170					
150.000			.0520	-.2310	.0050	.4270			.2060		-.[illegible]	-.5010	-.3520	-.3150	-.1570
157.000								.3690							
162.000									.1310						
165.000											-.[illegible]	-.5190	-.3360	-.3770	-.2370
169.000									.2310						
172.000							.7640								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB35)

MACH (2) = 1.248 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2590	.6980	.0830	-.0730	.1320	.6790			.4650		-.6020	-.3890	-.3970	-.4750	-.4000

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0270		-.1150
40.000	.0990	-.0600		-.1760	-.1930	-.1970	-.1810			-.2590
70.000		-.0510	-.1260	-.0610	.0030	-.1460	-.2290	-.2520		
90.000		-.0150	-.0440	.0230	-.0830	-.1540	-.2510	-.2410		
105.000				.0360	-.1050	-.1700	-.2530	-.2630		
110.000									-.3240	
120.000		-.0080	.1110	.1440	-.1760	-.3910	-.2400	-.2480	-.3040	
135.000				.7290	.2820	-.2750	-.2900	-.3210		
150.000		-.0430	.0080	.2680	.0540	-.1970	-.2730	-.3120		
165.000		-.0600		.3530	.3320	-.0730	-.1950	-.3760		
180.000		-.1860	-.0170	.1780						

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBM836) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.103 BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3952	.5120
PHI															
.000	1.2520	.8290	.0000	-.4820	-.2770	-.3110			.0070		-.0020	-.0840	-.1800	-.2530	-.2510
20.000			.3240	-.3230	-.2570	-.2740			-.0370		.0090				
40.000			.5440	-.0940	-.0410	-.1690			-.0750		-.0310	-.0730	-.0850	-.0840	.0190
50.000			.6210	.0430	.1120	.1850			.2380		.1610				
70.000			.6070	.0530	.1120	.2560			.2710		.1240	-.3020	-.2240	-.1320	-.1180
90.000		1.0900	.5100	-.0250	.1630	.3120			.3080		.0625	-.3950	-.2690	-.1610	-.1790
120.000			.3330	-.1060	.1920	.4300			.4310		-.0630	-.4730	-.4090	-.2610	-.2480
142.000										-.2750					
150.000			.1870	-.2300	.1430	.6390			.4130		-.4290	-.3990	-.3990	-.2890	-.1920
157.000								.7010							
162.000									.3100						
165.000											-.4530	-.3150	-.3710	-.2540	-.1610
169.000									.1060						
172.000							.8520								
180.000	1.2520	.6400	-.0470	-.2490	.0480	.6700			.3920		-.8620	-.5200	-.6150	-.6570	-.3200

X/LB	.5873	.6626	.7385	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1940							.0530		-.0730
40.000	.3140	.4540		.2330	.0720	-.3760	-.3000			-.0960
70.000		-.0390	-.2690	-.2720	.0820	-.0860	-.1630	.0510		
90.000		-.0130	-.2280	.0380	-.0650	-.0820	-.2260	.0620		
105.000				.1070	-.0320	-.0880	-.2560	.0380		
110.000									-.1060	
120.000		-.0780	-.1560	.5460	-.0010	-.1890	-.2280	-.0700	.0220	
135.000				.3400	.0970	-.3600	-.0820	-.0430		
150.000		-.0040	.1130	.1600	-.0160	-.1530	.0430	-.0390		
165.000		.0150		.2190	.2430	-.0190	.0610	-.2480		
180.000		-.0540	.0770	.1870						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB36)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3160	.6050	.0000	-.6030	-.3320	-.2300			.1260		.0370	-.0340	-.0980	-.1770	-.0130
20.000			.1920	-.4590	-.3390	-.1930			.1300		.0220				
40.000			.3950	-.2630	-.1550	-.2070			.1150		-.0010	-.0530	-.0850	-.1070	-.0390
55.000			.4680	-.1560	-.0380	-.0400			.2450		.0990				
70.000			.4580	-.1550	-.0600	.0640			.2480		.0450	-.3510	-.2900	-.1930	-.1440
90.000		1.0010	.3720	-.1960	-.0120	.1940			.2520		-.0180	-.4380	-.3440	-.2050	-.1630
120.000			.2420	-.2230	.0430	.3530			.3040		-.1620	-.5070	-.4380	-.2580	-.1460
142.000										-.4920					
150.000			.1570	-.2880	.0940	.6280			.3760		-.4820	-.4360	-.3650	-.2390	-.1080
157.000								.6570							
162.000									.2630						
165.000											-.7410	-.3640	-.3690	-.2040	-.0970
169.000									.1360						
172.000							.9020								
180.000	1.3160	.6770	-.0100	-.2370	.0250	.7480			.4250		-.8160	-.5400	-.4530	-.2550	-.1700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							.0000		-.0930
40.000	.2390	.3480		.1380	.0180	-.4140	-.2370			-.0960
70.000		-.0430	-.2650	-.2180	.0320	-.1400	-.2400	-.2370		
90.000		-.0060	-.2170	.0090	-.1010	-.1450	-.2800	-.2680		
105.000				.0970	-.1020	-.1460	-.3010	-.2830		
110.000									-.2730	
120.000		-.0210	-.0120	.4290	-.0890	-.2530	-.2370	-.2070	-.2430	
135.000				.4380	.1310	-.3360	-.1330	-.1130		
150.000		.0150	.1470	.2140	.0900	-.1840	-.0720	-.1330		
165.000		.0270		.2440	.2750	-.0660	-.0600	-.3130		
180.000		.0250	.1300	.2360						

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3270	.7830	.0000	-.5340	-.1620	-.0520			.1230		.0540	-.0160	-.0810	-.1260	.0490
20.000			.0380	-.5470	-.1590	-.1030			.1230		.0360				
40.000			.2050	-.4450	-.2370	-.2190			.1410		-.0030	-.0650	-.1200	-.1580	.0540
55.000			.2690	-.3570	-.2060	-.1120			.1970		.0250				
70.000			.2650	-.3530	-.2450	-.0120			.1950		-.0440	-.4160	-.3740	-.2490	
90.000		.8550	.2050	-.3510	-.2210	.0230			.1810		-.0140	-.4910	-.4310	-.2530	
120.000			.1250	-.3260	-.1150	.0630			.1050		-.0840	-.5660	-.4820	-.2	

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB36)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
142.000										-.6830					
150.000			.0960	-.3260	-.0070	.5780			.3120		-.5640	-.5090	-.3930	-.1890	-.0690
157.000								.5610							
162.000									.1870						
165.000											-.8580	-.4600	-.3330	-.1940	-.0690
169.000									.1420						
172.000							.8840								
180.000	1.3270	.6920	-.0110	-.2320	.0060	.7710			.4340		-.8080	-.6690	-.2840	-.2140	-.0670

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1740							-.0110		-.0410
40.000	.1560	.1780		.0230	-.0920	-.1930	-.1760			-.1330
70.000		-.0340	-.2620	-.1970	-.0230	-.1690	-.2630	-.2590		
90.000		.0060	-.1660	-.0510	-.1320	-.1760	-.2910	-.2660		
105.000				.0050	-.1340	-.1720	-.3000	-.2880		
110.000									-.3630	
120.000		.0020	.1160	.2270	-.1560	-.3260	-.2340	-.2370	-.3040	
135.000				.4520	.1810	-.3250	-.2110	-.1920		
150.000		.0190	.1720	.3130	.2050	-.1790	-.1930	-.2320		
165.000		.0210		.3130	.2580	-.0750	-.1520	-.3640		
180.000		.0260	.1320	.2550						

MACH (1) = 1.098 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.4070	.0000	-.5740	-.3210	-.1810			.1350		.0350	-.0440	-.1080	-.1400	.0100
20.000			.0230	-.6000	-.3090	-.2350			.1360		.0140				
40.000			.0810	-.5460	-.3700	-.2200			.1290		-.0290	-.1140	-.1640	-.2360	.0480
55.000			.0980	-.5150	-.3750	-.1190			.1450		-.0340				
70.000			.0760	-.5110	-.4170	-.0240			.1230		-.1170	-.4800	-.4510	-.3400	-.0590
90.000		.6950	.0370	-.4960	-.3930	.0580			.0170		-.2260	-.5540	-.5050	-.2490	-.0690
120.000			.0010	-.4270	-.2750	.2070			-.0080		-.4130	-.6390	-.5140	-.1880	-.0590
142.000										-.7650					
150.000			.0180	-.3630	-.0800	.4950			.2180		-.7010	-.6160	-.3190	-.2110	-.0750
157.000								.4290							
162.000									.0880						
165.000											-.9020	-.6250	-.2920	-.2220	-.0920
169.000									.1240						
172.000							.8240								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB36)

MACH (1) = 1.098 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.6850	-.0260	-.2340	.0230	.7370			.4100		-.8120	-.5520	-.4340	-.2440	-.1780

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2050							-.0100		-.0640
40.000	.1390	-.0180		-.0480	-.1310	-.2040	-.1770			-.1840
70.000		-.0700	-.1310	-.0530	-.0290	-.2300	-.3210	-.3270		
90.000		-.0240	-.0030	-.0090	-.1090	-.2310	-.3400	-.3240		
105.000				.0090	-.1430	-.2300	-.3440	-.3380		
110.000									-.3890	
120.000		.0200	.1570	.1420	-.2240	-.3700	-.2870	-.3060	-.3620	
135.000				.6200	.1620	-.3940	-.3250	-.2930		
150.000		.0560	.2070	.4160	.2610	-.2140	-.3000	-.3190		
165.000		.0440		.3910	.3300	-.1470	-.2300	-.4190		
180.000		.0230	.1270	.2270						

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2390	.8200	.0000	-.4830	-.2660	-.2840			-.0700		.0330	-.0800	-.1850	-.1930	-.2240
20.000			.0500	-.5490	-.2800	-.2720			.0930		-.0160				
40.000			-.0070	-.5750	-.4690	-.1920			.1150		-.0840	-.1970	-.3050	-.3580	.0030
55.000			-.0560	-.6230	-.5390	-.1280			.0900		-.0820				
70.000			-.1170	-.6420	-.5700	-.0420			.0180		-.1900	-.5290	-.5060	-.3640	.0120
90.000		.5150	-.1440	-.6280	-.5440	.0190			-.0920		-.3250	-.5950	-.5580	-.2670	-.0090
120.000			-.1410	-.5330	-.3580	.1120			-.1580		-.5840	-.7090	-.4580	-.2410	-.0580
142.000										-.8340					
150.000			-.0870	-.4130	-.0980	.3550			.0800		-.8290	-.6930	-.4070	-.2810	-.1180
157.000								.2690							
162.000									-.0120						
165.000											-.8990	-.6810	-.4790	-.3540	-.2120
169.000									.0920						
172.000							.6880								
180.000	1.2390	.6230	-.0670	-.2360	.0150	.6360			.3580		-.8260	-.5520	-.6490	-.6720	-.3360

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1850							.0090		-.0680
40.000	.1110	.0790		-.1870	-.2080	-.2060	-.2010			-.2610

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB36)

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0490	-.1230	-.0600	-.0290	-.2350	-.3250	-.3260		
90.000		.0060	-.0170	-.0040	-.1060	-.2380	-.3330	-.3190		
105.000				.0050	-.1680	-.2380	-.3290	-.3460		
110.000									-.4090	
120.000		.0500	.1540	.1320	-.2770	-.4070	-.2990	-.3300	-.4000	
135.000				.6440	.2050	-.3800	-.3730	-.3330		
150.000		.0360	.1310	.2790	.0010	-.2930	-.4190	-.4410		
165.000		.0660		.2950	.2460	-.2300	-.3360	-.4550		
180.000		-.0650	.0470	.1740						

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3310	.9700	.0000	-.2900	-.1150	-.2150			-.1700		-.1580	-.1180	.0030	-.1050	-.1990
20.000			.4790	-.1490	-.1060	-.1700			-.1760		-.1130				
40.000			.7060	.0950	.1140	-.1190			-.1450		-.1000	.0070	-.0760	-.0630	.0130
55.000			.7840	.2340	.2490	.0510			.2010		.1610				
70.000			.7680	.2350	.2300	.0690			.3050		.1330	-.1940	-.1570	-.0770	-.0470
90.000		1.1930	.6530	.1410	.2460	.1050			.3610		.0750	-.2550	-.2120	-.1250	-.1010
120.000			.4210	.0290	.2210	.3540			.4970		-.0480	-.3200	-.3280	-.2000	-.1760
142.000										-.1630					
150.000			.2670	-.1100	.1960	.6600			.4930		-.3130	-.3150	-.2940	-.2330	-.1775
157.000								.7700							
162.000									.4010						
165.000											-.3740	-.2260	-.2690	-.2120	-.1420
169.000									.2960						
172.000							.9170								
180.000	1.3310	.6320	.0460	-.1310	.1250	.6660			.4530		-.6390	-.4150	-.4300	-.5120	-.3700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2200							.0750		-.0770
40.000	.0930	.4880		.2990	.1680	-.2070	-.4880			.0550
70.000		-.0640	-.2060	-.2920	-.0640	-.0690	-.1320	-.1550		
90.000		-.0740	-.1700	.0200	-.0860	-.0480	-.1610	-.1860		
105.000				.1300	.0560	-.0990	-.1800	-.2110		
110.000									-.2390	
120.000		-.1520	-.1690	.5970	.1100	-.1630	-.2060	-.1750	-.1140	
135.000				.2800	.1350	-.3160	-.1650	-.0040		
150.000		-.1050	.0590	.1120	.0200	-.1350	.0440	.0310		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7G7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB36)

MACH (2) = 1.248 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0830		.1660	.2640	.0250	.0880	-.1600		
180.000		-.1650	.0180	.1680						

MACH (2) = 1.249 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3952	.5120
PHI															
.000	1.3910	.9890	.0000	-.3780	-.2350	-.0400			-.1820		-.2320	.1950	.0650	-.0830	-.1520
20.000			.3810	-.2630	-.2020	-.0870			-.1090		-.1500				
40.000			.5680	-.0670	.0030	-.2140			.0010		.0130	-.0090	.0360	-.0260	-.0580
55.000			.6290	.0340	.0980	-.0460			-.0570		.0610				
70.000			.6150	.0180	.0660	.0080			.0650		.0390	-.2300	-.2230	-.1270	-.1030
90.000		1.1000	.4970	-.0360	.0740	.0590			.1840		-.0180	-.3120	-.2660	-.1610	-.1310
120.000			.3270	-.0890	.0910	.3570			.3460		-.1990	-.3890	-.3170	-.2020	-.1490
142.000										-.0820					
150.000			.2310	-.1670	-.0140	.6680			.4660		-.3760	-.4260	-.3160	-.2300	-.1270
157.000								.7450							
162.000									.3670						
165.000											-.5670	-.3360	-.3030	-.2070	-.1070
169.000									.2410						
172.000							.9660								
180.000	1.3910	.7180	.0690	-.1290	.0470	.7580			.4960		-.4090	-.4480	-.3710	-.2730	-.2140

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1640							.0300		-.0870
40.000	-.0160	.4010		.0740	.1600	-.2280	-.2750			.0210
70.000		-.1480	-.1940	-.2550	-.0700	-.0880	-.1600	-.2000		
90.000		-.1360	-.1470	.0270	-.0950	-.0850	-.1950	-.2160		
105.000				.1240	-.0030	-.1410	-.2110	-.2360		
110.000									-.2480	
120.000		-.1250	-.0720	.4870	.0470	-.2180	-.2230	-.1520	-.1580	
135.000				.3930	.1730	-.2660	-.1160	-.0550		
150.000		-.0730	.1050	.1610	.1077	-.1110	-.0090	-.0510		
165.000		-.0640		.1870	.0881	.0210	.1390	-.2190		
180.000		-.0950	.0510	.3070						

MACH (2) = 1.249 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3980	.9380	.0000	-.3880	-.2360	-.0550			-.1930		-.2210	.1970	.0860	-.0530	-.1100
20.000			.2320	-.4010	-.2860	-.0830			-.1920		-.1470				
40.000			.3740	-.2760	-.2190	-.1020			-.1890		-.0630	.0650	.0090	-.0810	-.0940
55.000			.4230	-.1870	-.1320	-.0290			-.0460		-.0210				
70.000			.4060	-.1810	-.1340	.0250			.0650		-.0920	-.2900	-.2590	-.1870	-.1270
90.000		.9530	.3340	-.1910	-.1110	.1450			.1560		-.1740	-.4010	-.3240	-.1980	-.1280
120.000			.2330	-.1790	-.0530	.3660			.2540		-.2600	-.4800	-.3810	-.1980	-.1040
142.000										-.4830					
150.000			.1890	-.1990	.0510	.6460			.4180		-.4120	-.4510	-.3760	-.2120	-.0670
157.000								.6650							
162.000									.2980						
165.000											-.6360	-.3790	-.3580	-.2200	-.0580
169.000									.2470						
172.000							.9600								
180.000	1.3980	.7440	.0810	-.1230	.0470	.8070			.5010		-.5870	-.5080	-.2950	-.2590	-.0520

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1660							.0060		-.0550
40.000	.1350	.2280		-.0200	-.0170	-.3110	-.1990			-.1230
70.000		-.1110	-.1800	-.1800	-.0810	-.1230	-.2040	-.2410		
90.000		-.0760	-.1240	-.0040	-.1250	-.1350	-.2260	-.2330		
105.000				.0460	-.0580	-.1600	-.2370	-.2420		
110.000									-.2800	
120.000		-.0720	.0720	.2590	-.0260	-.2790	-.2240	-.1740	-.2290	
135.000				.4460	.2260	-.2300	-.1580	-.1410		
150.000		-.0530	.1390	.2720	.2290	-.0900	-.1070	-.1530		
165.000		-.0480		.2730	.2960	.0200	-.0590	-.2920		
180.000		-.0470	.0930	.2490						

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3880	.9830	.0000	-.3780	-.2530	-.0260			-.1470		-.2020	.1840	.0500	-.0590	-.1710
20.000			.2000	-.4180	-.3240	-.0550			-.2110		-.2190				
40.000			.2480	-.3610	-.2900	-.0810			-.2000		-.0710	.0340	-.0340	-.1370	-.1590
55.000			.2460	-.3300	-.2880	-.0480			-.0570		-.1360				
70.000			.2120	-.3360	-.3030	.0390			.0380		-.2070	-.3750	-.3150	-.2370	-.1090
90.000		.7920	.1610	-.3340	-.2730	.1780			.1050		-.2430	-.5100	-.3790	-.2100	-.1030
120.000			.1100	-.2820	-.1790	.3260			.1400		-.3320	-.5360	-.4930	-.1650	-.0750

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 1.245 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
142.000										-.5580					
150.000			.1080	-.2420	-.0420	.5700			.3260		-.5010	-.4770	-.3580	-.2380	-.0670
157.000								.5410							
162.000									.2000						
165.000											-.6670	-.4670	-.3060	-.2850	-.0840
169.000									.2330						
172.000							.8980								
180.000	1.3880	.7280	.0570	-.1310	.0480	.7690			.4770		-.5920	-.4720	-.3580	-.2710	-.1900

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2060							.0050		-.0860
40.000	.1610	.0420		-.0590	-.0540	-.2300	-.1670			-.1670
70.000		-.0850	-.1700	-.1450	-.0690	-.1610	-.1990	-.1940		
90.000		-.0460	-.0830	-.0310	-.1400	-.1630	-.2240	-.1970		
105.000				.0150	-.1160	-.1780	-.2410	-.2230		
110.000									-.2890	
120.000		-.0330	.0950	.2020	-.1160	-.3470	-.2170	-.1920	-.2520	
135.000				.5590	.2350	-.2830	-.2380	-.2110		
150.000		-.0440	.1210	.3520	.3150	-.1000	-.1860	-.2070		
165.000		-.0600		.3490	.3560	-.0190	-.1160	-.3350		
180.000		-.0990	.0520	.2060						

MACH (2) = 1.246 BETAT (5) = 6.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
.000	1.3190	.9620	.0000	-.3020	-.1150	-.2210			-.1840		-.1740	-.1100	.0310	-.0640	-.2060
20.000			.1920	-.3800	-.1550	-.2450			-.1990		-.2360				
40.000			.1430	-.3960	-.3350	-.2490			-.1770		-.1570	-.0750	-.1380	-.2240	-.2340
55.000			.0980	-.4300	-.3870	-.1210			-.0560		-.1790				
70.000			.0380	-.4570	-.4260	-.0160			.0060		-.2320	-.4550	-.4080	-.2780	-.0640
90.000		.6180	-.0150	-.4560	-.4000	.1310			.0360		-.2620	-.5380	-.4630	-.2050	-.0600
120.000			-.0470	-.3760	-.2800	.2310			-.0130		-.3960	-.5810	-.4990	-.2180	-.0700
142.000										-.6190					
150.000			-.0040	-.2780	-.0650	.4110			.1960		-.6180	-.5190	-.3500	-.3310	-.1230
157.000								.3770							
162.000									.1130						
165.000											-.6720	-.5370	-.3590	-.3860	-.2010
169.000									.2020						
172.000							.7450								

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3190	.6410	.0270	-.1370	.0910	.6460			.4300		-.6250	-.4190	-.4500	-.5250	-.3850

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2450							.0150		-.0930
40.000	.1290	-.0920		-.1570	-.1880	-.1790	-.1700			-.2670
70.000		-.0690	-.1730	-.1150	-.0330	-.1620	-.2440	-.2900		
90.000		-.0285	-.0780	-.0080	-.1190	-.1610	-.2720	-.2680		
105.000				.0450	-.1400	-.1840	-.2650	-.2780		
110.000									-.3350	
120.000		-.0170	.0920	.2060	-.1620	-.3970	-.2660	-.2560	-.3170	
135.000				.6340	.2830	-.2890	-.2750	-.3180		
150.000		-.0210	.0620	.2460	.0590	-.2330	-.3090	-.3540		
165.000		-.0290		.3000	.2910	-.1010	-.2060	-.3900		
180.000		-.1610	.0060	.1660						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM837) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.100 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2570	.7870	.0000	-.5190	-.3220	-.1910			-.0500		-.0330	-.0360	-.1370	-.2160	-.1790
20.000			.2850	-.3670	-.3060	-.2580			.0290		-.0460				
40.000			.5440	-.1190	-.0490	-.1950			.0160		-.0780	-.0360	-.0450	-.0500	.0920
55.000			.6370	.0390	.1110	.1500			.2550		.1510				
70.000			.6160	.0490	.0910	.2140			.2710		.1210	-.3120	-.2220	-.1300	-.0980
90.000		1.1020	.5060	-.0440	.1260	.2850			.3120		.0680	-.4110	-.2650	-.1790	-.1790
120.000			.3070	-.1380	.1100	.4100			.4470		-.1080	-.4890	-.4600	-.2870	-.2820
142.000										-.2790					
150.000			.1540	-.2860	.1030	.6240			.3980		-.4660	-.4360	-.4240	-.3000	-.1910
157.000								.6930							
162.000									.2940						
165.000											-.4880	-.3380	-.3960	-.2620	-.1480
169.000									.0760						
172.000							.8450								
180.000	1.2570	.6150	-.0830	-.3020	.0120	.6490			.3610		-.8900	-.5580	-.6880	-.6520	-.2750

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							.0490		-.0650
40.000	.3150	.4480		.2390	.0700	-.3800	-.3010			-.0880
70.000		-.0570	-.3070	-.3500	.0150	-.0780	-.0720	.0950		
90.000		-.0310	-.2620	.0050	-.1510	-.0950	-.1670	.1280		
105.000				.0620	-.0480	-.1120	-.2030	.1090		
110.000									-.1510	
120.000		-.0960	-.2060	.5340	.0000	-.2230	-.2320	.1360	-.0220	
135.000				.2900	.0640	-.4080	-.1660	.0650		
150.000		-.0110	.0750	.1300	-.0430	-.2120	-.0230	-.0430		
165.000		.0010		.1890	.2000	-.0780	-.0110	-.2790		
180.000		-.0330	.0570	.1710						

MACH (1) = 1.100 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3110	.7850	.0000	-.5930	-.2180	-.1710			.0890		.0590	-.0160	-.0750	-.1300	.0780
20.000			.1560	-.4970	-.3630	-.1670			.0930		.0160				
40.000			.3900	-.2750	-.1720	-.1160			.0960		.0130	-.0300	-.0590	-.0770	.0650
55.000			.4790	-.1480	-.0450	.1490			.2290		.1030				
70.000			.4670	-.1470	-.0690	.1990			.2420		.0520	-.3490	-.2890	-.1940	-.1520
90.000		1.0020	.3740	-.1950	-.0400	.2550			.2680		-.0110	-.4430	-.3320	-.2260	-.1630
120.000			.2220	-.2430	-.0220	.3810			.3360		-.1930	-.5150	-.4610	-.2790	-.1630
142.000										-.4450					
150.000			.1230	-.3220	.0080	.6260			.3720		-.5000	-.4960	-.4100	-.2400	-.1080
157.000								.6630							
162.000									.2560						
165.000											-.7270	-.3840	-.3890	-.1960	-.1010
169.000									.1180						
172.000							.8930								
180.000	1.3110	.6670	-.0530	-.2780	-.0650	.7290			.4020		-.8360	-.5650	-.4300	-.2640	-.1500

X/LB	.5873	.6526	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							.0150		-.0890
40.000	.2470	.3560		.1620	.0210	-.4100	-.2180			-.0940
70.000		-.0420	-.2990	-.2880	-.0360	-.1630	-.2210	.0500		
90.000		-.0090	-.2440	-.0180	-.1780	-.1530	-.3000	.0950		
105.000				.0640	-.1120	-.1660	-.3170	-.0140		
110.000									-.1340	
120.000		-.0410	-.0810	.4330	-.0800	-.3240	-.2640	-.1840	-.0110	
135.000				.3970	.0970	-.3640	-.1910	-.1440		
150.000		.0110	.1270	.1880	.0510	-.2200	-.1170	-.1570		
165.000		.0130		.2090	.2320	-.1010	-.0990	-.3320		
180.000		.0260	.1050	.2120						

MACH (1) = 1.098 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3260	.7550	.0000	-.4460	-.1790	.0190			.0930		.0460	-.0110	-.0630	-.0870	.0480
20.000			-.0050	-.4860	-.1010	.0290			.0940		.0280				
40.000			.2020	-.4540	-.1570	-.0450			.1190		-.0040	-.0560	-.0990	-.1260	.0480
55.000			.2810	-.3480	-.1920	-.0730			.1830		.0330				
70.000			.2750	-.3410	-.2450	.0180			.1980		-.0290	-.4210	-.3840	-.2.40	-.0810
90.000		.8570	.2030	-.3500	-.2290	.1280			.2000		-.1070	-.5080	-.4300	-.2990	-.1160
120.000			.1040	-.3440	-.1660	.2950			.2020		-.298?	-.5820	-.5060	-.2250	-.0880

AMES 11-FT IA9 +9A + S3 + T9 ORBITER FUSELAGE (RBN837)

MACH (1) = 1.090 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6800					
150.000			.0610	-.3580	-.0640	.5740			.3060		-.5800	-.5530	-.4210	-.1930	-.0630
157.000								.5640							
162.000									.1740						
165.000											-.8820	-.4830	-.3490	-.1920	-.0590
169.000									.1190						
172.000							.8750								
180.000	1.3260	.6910	-.0550	-.2680	-.0560	.7540			.4060		-.8410	-.67	-.3020	-.2160	-.0600

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1780							-.0040		-.0350
40.000	.1570	.1860		.0540	-.0700	-.1820	-.1610			-.1280
70.000		-.0960	-.3040	-.2620	-.0450	-.1900	-.2860	-.2330		
90.000		-.0610	-.2260	-.0740	-.1790	-.1860	-.3130	-.3090		
105.000				-.0040	-.1570	-.1990	-.3230	-.3200		
110.000									-.3590	
120.000		-.0280	.0750	.2390	-.1540	-.3720	-.2540	-.2660	-.3220	
135.000				.4100	.1470	-.3390	-.2520	-.2080		
150.000		.0050	.1560	.2530	.1810	-.2020	-.2160	-.2600		
165.000		.0150		.2680	.2370	-.0970	-.1650	-.3710		
180.000		.0270	.1080	.2300						

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3050	.7780	.0010	-.6100	-.2240	-.1700			.1110		.0290	-.0340	-.0750	-.0880	.0550
20.000			-.0450	-.6780	-.1680	-.2030			.1100		.0160				
40.000			.0520	-.5700	-.2790	-.2070			.1130		-.0120	-.0880	-.1540	-.1910	.0190
55.000			.1870	-.5250	-.3625	-.1470			.1480		-.0160				
70.000			.1750	-.5130	-.4180	-.0560			.1440		-.0940	-.4610	-.4390	-.3570	-.0480
90.000		.6890	.0320	-.5060	-.4020	.0390			.0910		-.1920	-.5460	-.4460	-.2880	-.0580
120.000			-.2130	-.4470	-.3100	.0260			.0080		-.3350	-.6270	-.5350	-.3070	-.0480
142.000										-.7710					
150.000			-.1160	-.4310	-.1500	.4330			.2110		-.7	-.61	-.5330	-.3210	-.0590
157.000								.4340							
162.000									.0740						
165.000											-.3060	-.6110	-.5110	-.3	-.0
169.000									.0170						
172.000							.0150								

MACH (1) = 1.100 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3050	.6580	-.0670	-.2770	-.0640	.7210			.3860		-.8230	-.5750	-.4300	-.2450	-.1540

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							-.0150		-.0660
40.000	.1260	-.0180		-.0260	-.1270	-.2070	-.1620			-.1810
70.000		-.1060	-.1910	-.0970	-.0550	-.2480	-.3310	-.3440		
90.000		-.0490	-.0650	-.0530	-.1390	-.2480	-.3530	-.3450		
105.000				-.0240	-.1490	-.2450	-.3550	-.3620		
110.000									-.4060	
125.000		.0040	.1030	.1020	-.2340	-.3860	-.3010	-.3280	-.3870	
135.000				.6140	.1560	-.4040	-.3320	-.3080		
150.000		.0170	.1700	.3960	.2320	-.2310	-.3190	-.3320		
165.000		.0233		.3745	.3150	-.1590	-.2500	-.4270		
180.000		.0760	.1010	.2030						

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2460	.6770	.0030	-.5130	-.2810	-.2960			-.0190		-.0010	-.0800	-.1670	-.1500	-.1670
20.000			.0040	-.5930	-.2800	-.2260			.0700		-.0310				
40.000			-.0410	-.5980	-.4820	-.2060			.1250		-.0950	-.1950	-.2880	-.3310	-.2110
55.000			-.0250	.6440	-.5660	-.1650			.0850		-.0800				
70.000			-.1270	-.6500	-.5910	-.0110			.0360		-.1700	-.5330	-.5180	-.4120	-.2130
90.000		.5050	.1610	-.6450	-.5640	.0470			-.0530		-.2470	-.4080	-.5600	-.2860	-.1240
120.000			.1640	-.5560	-.3270	.1510			-.1510		-.5610	-.7110	-.4070	-.2420	-.0040
142.000										-.8460					
160.000			-.1260	-.4500	-.1560	.3580			.0770		-.0510	-.7110	-.5100	-.2720	-.1740
197.000								.2700							
162.000									-.0320						
165.000											-.0230	-.7040	-.4620	-.3220	-.1610
168.000									.0660						
172.000							.6750								
180.000	1.2460	.5700	-.1080	-.2690	-.0180	.6100			.3490		-.0610	-.5850	-.2110	-.0610	-.2910

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1680							.0080		.0720
40.000	.0930	.0360		-.1980	-.2000	-.1980	-.1610			-.2320

AMES 11-7D7 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB37)

MACH (1) = 1.099 BETAT (5) = 8.280

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0750	-.2050	-.1160	-.0650	-.2350	-.3380	-.3570		
90.000		-.0190	-.1040	-.0530	-.1290	-.2410	-.3450	-.3560		
105.000				-.0270	-.2130	-.2500	-.3490	-.3720		
110.000									-.4280	
120.000		.0310	.0810	.1540	-.2820	-.3980	-.3120	-.3430	-.4140	
135.000				.6050	.1880	-.3970	-.3550	-.3320		
150.000		.0360	.1090	.2540	.0070	-.3150	-.4370	-.4610		
165.000		.0620		.2800	.2280	-.2760	-.3470	-.4540		
180.000		-.0500	.0300	.1560						

MACH (2) = 1.247 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.22	.2711	.3200	.3953	.5120
PHI															
.000	1.3310	.9900	.0000	-.3130	-.1640	-.1530			-.1450		-.15	-.1390	-.1390	-.0320	-.1620
20.000			.4710	-.1720	-.1460	-.1420			-.1720		-.12				
40.000			.7110	.0850	.0960	-.0910			-.1760		-.05	-.0070	-.0670	-.0280	.0480
55.000			.7870	.2330	.2330	.1210			.1190		.15				
70.000			.7630	.2330	.2090	.1360			.2640		.12	-.2020	-.1730	-.0780	-.0460
90.000		1.1920	.6360	.1300	.2140	.1500			.3420		.05	-.2700	-.2440	-.1450	-.1130
120.000			.4060	-.0010	.1600	.2840			.5110		-.05	-.3410	-.3660	-.2240	-.2040
142.000										-.1650					
150.000			.2340	-.1590	.1010	.6440			.4840		-.36	-.3620	-.3180	-.2560	-.1950
157.000								.7920							
162.000									.3900						
165.000											-.37	-.2510	-.2930	-.2220	-.1490
169.000									.1820						
172.000							.9290								
180.000	1.3310	.6320	.0010	-.1900	.0380	.6020			.4280		-.66	-.4730	-.4980	-.5380	-.3100

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2340							.0700		-.065
40.000	.2950	.4520		.3050	.1630	-.2200	-.4430			.035
70.000		-.0690	-.2350	-.3230	-.0990	-.0930	-.1580	-.1480		
90.000		-.0850	-.2080	-.0180	-.1290	-.1070	-.1800	-.2090		
105.000				.0910	.0430	-.1110	-.1980	-.2410		
110.000									-.2560	
120.000		-.1640	-.2030	.5900	.0980	-.1810	-.2340	-.2050	-.1600	
135.000				.2380	.1070	-.3410	-.2160	-.0580		
150.000		-.0430	.0430	.1230	.0030	-.1660	-.0020	-.0170		

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM837)

MACH (2) = 1.247 BETAT (1) = -8.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0680		.1630	.2130	-.0140	.0330	-.2020		
180.000		-.1200	.0240	.1630						

MACH (2) = 1.248 BETAT (2) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2299	.2711	.3200	.3953	.5120
PHI															
.000	1.3810	.9820	.0000	-.3960	-.2770	-.0550			-.1480		-.2420	.1900	.0950	-.0480	-.1270
20.000			.3700	-.2840	-.2460	.0030			-.1190		-.1740				
40.000			.5730	-.0730	-.0230	-.1270			-.0860		-.0140	-.0360	.0610	.0090	-.0210
55.000			.6500	.0360	.0370	-.0650			.0460		.0250				
70.000			.6070	.0210	.0490	-.0200			.1800		.0130	-.2160	-.2270	-.1270	-.1190
90.000		1.0900	.4940	-.0400	.0580	.0260			.2470		-.0210	-.3200	-.2820	-.1750	-.1620
120.000			.3110	-.1130	.0460	.3010			.3470		-.1540	-.4010	-.3550	-.2510	-.1790
142.000										-.3830					
150.000			.1980	-.2030	.0310	.6460			.4530		-.3840	-.4410	-.3490	-.2550	-.1230
157.000								.7540							
162.000									.3510						
165.000											-.5950	-.3260	-.3330	-.2260	-.0990
169.000									.2180						
172.000							.9650								
180.000	1.3810	.6810	.0310	-.1730	-.0110	.7060			.4590		-.6230	-.4470	-.3890	-.3030	-.2040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2380							.0410		-.0840
40.000	.1490	.3890		.2300	.1220	-.2440	-.2110			-.0260
70.000		-.1280	-.2190	-.2990	-.1080	.1080	-.1830	-.2290		
90.000		-.1070	-.1740	-.0020	-.1290	-.1420	-.2120	-.2330		
105.000				.0970	-.0150	-.1530	-.2300	-.2580		
110.000									-.2720	
120.000		-.1170	-.1090	.4810	.0350	-.2340	-.2520	-.1870	-.1960	
135.000				.3550	.1490	-.2980	-.1580	-.0930		
150.000		-.0690	.0830	.1500	.0750	-.1440	-.0480	-.0820		
165.000		-.0610		.1770	.2400	-.0150	-.0200	-.2440		
180.000		-.0740	.0520	.1900						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB37)

MACH (2) = 1.247 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2229	.2711	.3200	.3953	.5120
PHI															
.000	1.3960	.9540	.0000	-.2280	-.2340	-.0460			-.1650		-.2950	.1860	.0880	-.0140	-.0700
20.000			.1920	-.3010	-.2050	-.0760			-.1650		-.1980				
40.000			.3610	-.2920	-.1570	-.1020			-.1440		-.1670	.0820	.0240	-.0480	-.0600
55.000			.4210	-.1860	-.1240	-.0520			-.0590		-.0960				
70.000			.4040	-.1770	-.1340	-.0140			.0470		-.0810	-.3350	-.2430	-.1910	-.1480
90.000		.9470	.3260	-.1960	-.1180	.0360			.1460		-.1350	-.4220	-.2900	-.2150	-.1500
120.000			.2080	-.1940	-.0760	.3420			.2350		-.2730	-.4650	-.4280	-.2150	-.1180
142.000										-.4860					
150.000			.1580	-.2230	-.0190	.6350			.4130		-.6650	-.4900	-.3790	-.2010	-.0640
157.000								.6830							
162.000									.2930						
165.000											-.4370	-.4120	-.3740	-.2200	-.0540
169.000									.2380						
172.000							.9700								
180.000	1.3960	.7170	.0500	-.1520	-.0020	.7820			.4870		-.6130	-.5360	-.3170	-.2680	-.0470

X/LB	.5873	.6626	.7380	.7869	.8213	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1670							.0060		-.0470
40.000	.1310	.2260		.0660	.0210	-.3100	-.1780			-.1210
70.000		-.1160	-.2090	-.2320	-.1230	-.1380	-.2130	-.2630		
90.000		-.0710	-.1470	-.0300	-.1380	-.1770	-.2440	-.2550		
105.000				.0390	-.0640	-.1860	-.2520	-.2630		
110.000									-.2920	
120.000		-.0570	.0780	.2700	-.0230	-.2930	-.2470	-.1960	-.2420	
135.000				.3820	.2140	-.2470	-.1710	-.1610		
150.000		-.0450	.1310	.2620	.2110	-.1040	-.1240	-.1780		
165.000		-.0420		.2650	.2570	.0020	-.0810	-.2980		
180.000		-.0410	.0880	.2290						

MACH (2) = 1.252 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2229	.2711	.3200	.3953	.5120
PHI															
.000	1.3780	.9780	.0000	-.4080	-.2950	-.0370			-.1420		-.2570	.1830	.0930	-.0160	-.1350
20.000			.1610	-.4530	-.2820	-.0880			-.1530		-.1970				
40.000			.2200	-.3860	-.2880	-.1220			-.1770		-.2280	.0770	.0000	-.1010	-.1300
55.000			.2370	-.3380	-.2830	-.0900			-.0750		-.1240				
70.000			.2020	-.3390	-.3030	-.0160			.0240		-.0520	-.3870	-.3000	-.2440	-.1700
90.000		.7800	.1500	-.3400	-.2790	.1200			.1000		-.0770	.4780	-.3560	-.2370	-.1350
120.000			.0860	-.3000	-.1990	.3550			.1340		-.0750	-.5320	-.4790	.1640	-.0340

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB37)

MACH (2) = 1.252 BETAT (4) = 4.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5500					
150.000			.0750	-.2710	-.0890	.5590			.3280		-.5050	-.4990	-.3760	-.2210	-.0630
157.000								.5620							
162.000									.1930						
165.000											-.6680	-.4800	-.3210	-.2750	-.0680
169.000									.2170						
172.000							.8990								
180.000	1.3780	.6950	.0220	-.1710	-.0130	.7320			.4520		-.6000	-.4690	-.3800	-.2900	-.2110

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2410							-.001		-.0790
40.000	.1500	.0380		-.0570	-.0110	-.2690	-.1540			-.1640
70.000		-.1020	-.2030	-.1870	-.1090	-.1750	-.2360	-.2180		
90.000		-.0510	-.1240	-.0520	-.1740	-.1860	-.2570	-.2240		
105.000				-.0030	-.1330	-.2020	-.2540	-.2440		
110.000									-.3010	
120.000		-.0300	.0410	.1500	-.1070	-.3560	-.2440	-.1980	-.2700	
135.000				.5500	.2290	-.2890	-.2160	-.2060		
150.000		-.0330	.1090	.3350	.2890	-.1180	-.1960	-.2110		
165.000		-.0490		.3440	.3320	-.0300	-.1290	-.3450		
180.000		-.0850	.0430	.1830						

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3300	.9500	.0000	-.3380	-.1720	-.1650			-.1420		-.1920	-.1040	-.0790	.0020	-.1640
20.000			.1550	-.4200	-.2200	-.1700			-.1660		-.2820				
40.000			.1120	-.4230	-.3640	-.1830			-.2050		-.1320	-.0480	-.1090	-.1840	-.2030
55.000			.0800	-.4450	-.4090	-.1210			-.0560		-.1630				
70.000			.0280	-.4590	-.4340	-.0380			.0340		-.2130	-.1520	-.3650	-.2970	-.0390
90.000		.6100	-.0210	-.4600	-.4120	.1120			.0610		-.2720	-.5390	-.4700	-.2150	-.0610
120.000			-.0570	-.3960	-.3170	.2500			-.0100		-.3990	-.5840	-.5160	-.1900	-.0710
142.000										-.6230					
150.000			-.0380	-.3200	-.1530	.3930			.1950		-.6320	-.5350	-.3050	-.3260	-.0990
157.000								.4150							
162.000									.1070						
165.000											-.6860	-.5530	-.3650	-.3850	-.1760
169.000									.1820						
172.000							.7710								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB37)

MACH (2) = 1.247 BETAT (5) = 8.230

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3300	.6570	-.0150	-.2000	.0190	.5970			.4060		-.6490	-.4500	-.5150	-.5490	-.3270

X/LB	.5873	.6626	.7380	.7869	.8285	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2320							-.0010		-.0530
40.000	.1370	-.1130		-.1630	-.1830	-.1770	-.1660			-.2330
70.000		-.0740	-.2030	-.1610	-.0680	-.1670	-.2590	-.3020		
90.000		-.0280	-.1220	-.0230	-.1690	-.1820	-.2720	-.2850		
105.000				.0240	-.1480	-.2080	-.2720	-.3050		
110.000									-.3460	
120.000		-.0080	.0050	.2560	-.1470	-.3890	-.2930	-.2590	-.3190	
135.000				.6140	.2580	-.2950	-.2610	-.3040		
150.000		-.0290	.0460	.2350	.0760	-.2240	-.2950	-.3390		
165.000		-.0140		.2800	.2920	-.1100	-.2040	-.3890		
180.000		-.1220	.0160	.1610						

DATE 12 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S2 + T9 ORBITER FUSELAGE (RBNB38) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDCOT = -15.000 ELEVON = .000
RUDFLT = .000

MACH (1) = 1.099 BETAT (1) = -8.170

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2520	.7630	.0000	-.5730	-.3090	-.1410			-.1210		-.0190	-.0230	-.1110	-.1720	-.0270
20.000			.2620	-.3930	-.3120	-.1010			-.0340		-.1270				
40.000			.5540	-.1020	-.0180	-.2000			.0520		-.1760	.0230	-.0020	-.0130	.1280
55.000			.6580	.0580	.1440	.0790			.2590		-.1440				
70.000			.6390	.0590	.1010	.1640			.2740		-.1270	-.3110	-.2180	-.1240	-.0920
90.000		1.1090	.5090	-.0440	.1320	.2510			.3140		-.1820	-.4110	-.2550	-.2110	-.2010
120.000			.2840	-.1650	.0710	.3800			.4590		-.1250	-.4990	-.5040	-.3160	-.3210
142.000										-.2800					
150.800			.1140	-.3240	.0550	.6040			.3800		-.5110	-.4720	-.4460	-.3150	-.1910
157.000								.6850							
162.000									.2760						
165.000											-.4250	-.3480	-.4170	-.2740	-.1560
169.000									.0510						
172.000							.8370								
180.000	1.2520	.5750	-.1200	-.3430	-.0510	.6200			.3330		-.9150	-.5870	-.7850	-.6280	-.2480

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1750							.0490		-.0770
40.000	.3230	.4450		.2640	.0700	-.3780	-.2940			-.1170
70.000		-.0930	-.3290	-.4140	-.0260	-.0120	-.1480	-.0320		
90.000		-.0760	-.2930	-.0260	-.1930	.0050	-.1490	-.0910		
105.000				.0250	-.0680	-.0110	-.1620	-.1290		
110.000									-.1570	
120.000		-.1380	-.2550	.5240	-.0180	-.1830	-.1810	-.0820	-.0340	
135.000				.2290	.0260	-.4470	-.1700	-.0130		
150.000		-.0200	.0340	.1030	-.0710	-.2490	-.0440	-.0410		
165.000		-.0160		.1550	.1600	-.1310	-.0630	-.2930		
180.000		-.0170	.0320	.1510						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM030)

MACH (1) = 1.099 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3080	.7620	.0000	-.4680	-.1530	-.1640			.0730		.0420	-.0040	-.0540	-.0910	.0430
20.000			.1160	-.5080	-.2520	-.1700			.0970		.0270				
40.000			.3910	-.2910	-.1560	-.1470			.1330		.0250	-.0020	-.0280	-.0430	.1080
55.000			.4910	-.1370	-.0360	-.0390			.2360		.1180				
70.000			.4780	-.1390	-.0730	.0640			.2470		.0690	-.3450	-.2950	-.1870	-.1540
90.000		1.0040	.3710	-.1960	-.0640	.2010			.2740		-.0120	-.4520	-.3300	-.2500	-.2120
120.000			.1960	-.2620	-.0690	.3620			.3450		-.2110	-.5310	-.4940	-.3100	-.1880
142.000										-.4250					
150.000			.0840	-.3560	-.0450	.6120			.3580		-.5330	- 5460	-.4340	-.2350	-.1080
157.000								.6610							
162.000									.2410		-.7300	-.4050	-.4070	-.1950	-.1000
165.000															
169.000									.0920						
172.000							.8730								
180.000	1.3080	.6110	-.0960	-.3160	-.1230	.7000			.3770		-.8640	-.5930	-.4230	-.2770	-.1260

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1820							.0080		-.0890
40.000	.2510	.3420		.1690	-.0060	-.3930	-.1910			-.1100
70.000		-.0790	-.3230	-.3650	-.1290	-.0750	-.1320	-.0100		
90.000		-.0550	-.2810	-.0480	-.2160	-.1410	-.1610	-.0460		
105.000				.0330	-.1250	-.2210	-.1810	-.0860		
110.000									-.1830	
120.000		-.0840	-.1490	.4290	-.0890	-.3480	-.1580	-.0380	-.0770	
135.000				.3430	.0660	-.3930	-.2450	-.0280		
150.000		-.0090	.0910	.1660	.0250	-.2490	-.1550	-.1720		
165.000		-.0060		.2010	.1930	-.1510	-.1490	-.3490		
180.000		.0290	.0720	.1920						

MACH (1) = 1.099 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3240	.7210	.0000	-.3890	-.1060	-.0140			.0890		.0610	.0200	-.0240	-.0440	.0770
20.000			-.0500	-.4660	-.1660	-.0350			.0950		.0450				
40.000			.2030	-.4490	-.0840	-.1060			.1280		.0260	-.0210	-.1820	-.1360	.0
55.000			.2950	-.2710	-.1550	-.0800			.2010		.0550				
70.000			.2090	-.3240	-.2340	.0			.2100		-.1040	-.1970	-.1770	-.0910	-.0
91.000		.9110	.2470	-.1470	-.0340	.1140			.2190		-.0740	-.1430	-.1270	-.0	
180.000			.0890	-.0610	-.0360	.1280			.2070		-.0870	-.0	-.0110	-.0	-.0

MACH (1) = 1.099 BETAT (4) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.6670					
142.000									.3010		-.5 [illegible]	-.5640	-.4360	-.1890	-.0580
150.000			.0310	-.3870	-.1080	.5740									
157.000								.5690							
162.000									.1670						
165.000											-.6 [illegible]	-.4840	-.3530	-.1780	-.0480
169.000									.1020						
172.000							.8690								
180.000	1.3240	.6380	-.0900	-.3010	-.1030	.7390			.3860		-.4 [illegible]	-.6220	-.3100	-.1980	-.0450
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1890							-.0030		-.0290					
40.000	.1620	.2020		.0700	-.0740	-.1310	-.1350			-.1220					
70.000		-.1100	-.3330	-.3000	-.1080	-.2140	-.2590	.0010							
90.000		-.0810	-.2570	-.0950	-.2140	-.2010	-.3240	.0300							
105.000				-.0150	-.1690	-.2610	-.3430	-.0890							
110.000									-.1870						
120.000		-.0340	.0620	.2530	-.1480	-.3960	-.2610	-.2820	-.0880						
135.000				.3650	.1290	-.3470	-.2680	-.2310							
150.000		.0030	.1190	.2450	.1570	-.2110	-.2350	-.2850							
165.000		.0190		.2320	.2430	-.1160	-.1670	-.3950							
180.000		.0340	.0690	.1950											

MACH (1) = 1.095 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3060	.7680	.0000	-.4700	-.1880	-.1730			.0890		-.2 [illegible]	.0030	-.0500	-.0430	.0430
20.000			-.0760	-.4840	-.1690	-.1800			.0860		-.2 [illegible]				
40.000			.0350	-.5540	-.0920	-.1750			.1100		-.1 [illegible]	-.0700	-.1270	-.1610	.0160
55.000			.0800	-.5240	-.3020	-.1740			.1540		-.1 [illegible]				
70.000			.0730	-.5080	-.4030	-.0760			.1640		-.1 [illegible]	-.4530	-.4390	-.3600	-.0450
90.000		.6840	.0270	-.5080	-.4050	.0240			.1420		-.1 [illegible]	-.5460	-.4820	-.3300	-.0520
120.000			-.0380	-.4620	-.3380	.2050			.0410		-.3 [illegible]	-.6250	-.5530	-.2040	-.0370
142.000										-.7710					
150.000			-.0470	-.4300	-.1990	.4870			.2010		-.6 [illegible]	-.6180	-.3540	-.1940	-.0430
157.000								.4350							
162.000									.0610						
165.000											-.4 [illegible]	-.5880	-.3050	-.2000	-.0560
169.000									.0850						
172.000							.8070								

AMES 11-7DY IA9 02A + 33 + T9 ORBITER FUSELAGE

MACH (1) = 1.095 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3060	.6250	-.1040	-.3170	-.1180	.7010			.3600		-.8420	-.5910	-.4060	-.2520	-.135J

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1890							-.0220		-.0850
40.000	.1230	-.0080		-.0160	-.1330	-.1630	-.1520			-.1830
70.000		-.1170	-.2430	-.1680	-.0890	-.2630	-.3490	-.3160		
90.000		-.0360	-.1160	-.0910	-.1580	-.2530	-.3660	-.3680		
105.000				-.0370	-.1750	-.2550	-.3670	-.3850		
110.000									-.4120	
120.000		.0280	.0650	.0870	-.2250	-.3810	-.3130	-.3460	-.4070	
135.000				.5280	.1560	-.4040	-.3270	-.3160		
150.000		.0650	.1280	.3960	.2100	-.2370	-.3260	-.3470		
165.000		.0680		.3510	.2980	-.1620	-.2570	-.4230		
180.000		.0350	.0740	.1920						

MACH (1) = 1.097 BETAT (5) = 8.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2360	.7510	.0000	-.6010	-.3360	-.141C			-.1350		.0250	-.0350	-.1050	-.0770	-.0030
20.000			-.1160	-.6810	-.1900	-.2100			-.1520		.0030				
40.000			-.1330	-.6870	-.2460	-.2670			.0510		-.0910	-.1630	-.2700	-.2850	.0210
55.000			-.1290	-.6870	-.5120	-.1790			.0560		-.0690				
70.000			-.1660	-.6870	-.5960	-.0560			.0390		-.1500	-.5160	-.5080	-.4390	.0200
90.000		.4730	-.1890	-.6630	-.5840	.0250			-.0450		-.2560	-.6020	-.5520	-.3060	.0380
120.000			-.2040	-.5790	-.4810	.1490			-.1190		-.5120	-.6970	-.5660	-.2450	.0500
142.000										-.8490					
150.000			-.1690	-.4920	-.2730	.3640			.0730		-.8550	-.7220	-.4040	-.2710	-.0440
157.000								.2830							
162.000									-.0410						
165.000											-.9290	-.7120	-.4490	-.3160	-.1000
169.000									.0470						
172.000							.6730								
180.000	1.2360	.5650	-.1510	-.3550	-.0760	.5880			.3030		-.8770	-.6150	-.8350	-.6930	-.2530

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1770							.0070		-.0730
40.000	.0880	.0150		-.1880	-.1950	-.1880	-.1770			-.2240

MACH (1) = 1.097 BETAT (5) = 8.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8849	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1030	-.2730	-.1690	-.0950	-.2620	-.3400	-.3740		
90.000		-.0470	-.1710	-.0460	-.1790	-.2540	-.3680	-.3690		
105.000				.0460	-.2470	-.2540	-.3710	-.3820		
110.000									-.4380	
120.000		.0110	-.0140	.1120	-.2370	-.4510	-.3390	-.3600	-.4270	
135.000				.5900	.1690	-.4140	-.3590	-.3510		
150.000		.0200	.0390	.2510	.0250	-.3200	-.4220	-.4400		
165.000		.0340		.2760	.2440	-.2990	-.3430	-.4600		
180.000		-.0210	.0150	.1380						

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3240	.9450	.0000	-.3450	-.2350	-.1010			-.1530		-.1890	-.1540	-.1610	.0370	-.1210
20.000			.4660	-.1940	-.1880	-.1420			-.1070		-.1120				
40.000			.7200	.0820	.0830	-.1020			-.2080		.0400	.0420	-.0260	.0110	.0830
55.000			.8020	.2330	.2280	.1030			.0420		.1700				
70.000			.7740	.2270	.1920	.1070			.1470		.1450	-.1770	-.1720	-.0650	-.0580
90.000		1.1940	.6340	.1170	.1940	.1150			.3160		.0900	-.2580	-.2350	-.1450	-.1320
120.000			.3840	-.0260	.1220	.1220			.4960		-.0890	-.3600	-.3820	-.2500	-.2530
142.000										-.1680					
150.000			.2140	-.1860	.0380	.5910			.4830		-.3980	-.3770	-.3270	-.2740	-.2010
157.000								.8100							
162.000									.3880						
165.000											-.3960	-.2650	-.3060	-.2370	-.1510
169.000									.1750						
172.000							.9150								
180.000	1.3240	.8450	-.0190	-.2260	-.0600	.5060			.4100		-.6800	-.5060	-.5710	-.5570	-.2690

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2140							.0690		-.0570
40.000	.3070	.4620		.3240	.1620	-.2130	-.4060			.0320
70.000		-.0770	-.2620	-.3550	-.1340	-.1300	-.1660	-.1140		
90.000		-.0910	-.2460	-.0520	-.1730	-.1400	-.1960	-.1960		
105.000				.0580	.0360	-.1420	-.2500	-.2610		
110.000									-.2360	
120.000		-.1970	-.2380	.5850	.0890	-.1980	-.2500	-.2520	-.1700	
135.000				.2040	.0740	-.3660	-.2510	-.1060		
150.000		-.0650	.0190	.1160	-.0090	-.1820	-.0470	-.0690		

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0540		.1410	.1690	-.0500	-.0220	-.2360		
180.000		-.0630	.0260	.1630						

MACH (2) = 1.251 BETAT (2) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3959	.5120
PHI															
.000	1.3740	.9740	.0000	-.3980	-.2740	-.0350			-.1480		-.2500	.1830	.1160	-.0280	-.0920
20.000			.3650	-.2960	-.2740	-.0150			-.1280		-.1680				
40.000			.5800	-.0660	-.0290	.0070			-.1120		-.0020	-.0230	.1050	.0230	.0160
55.000			.6460	.0490	.0840	-.0060			-.0080		.0540				
70.000			.6160	.0310	.0390	.0000			.1410		.0070	-.2310	-.2160	-.1090	-.1310
90.000		1.0880	.4910	-.0420	.0480	.0230			.2450		-.0310	-.3030	-.3100	-.1790	-.1810
120.000			.2920	-.1260	.0160	.2180			.3480		-.1730	-.4160	-.3850	-.2510	-.2140
142.000										-.3460					
150.000			.1760	-.2240	-.0140	.6110			.4570		-.4080	-.4680	-.3580	-.2600	-.1210
157.000								.7880							
162.000									.3520						
165.000											-.6020	-.3500	-.3510	-.2340	-.1010
169.000									.2110						
172.000							.9430								
180.000	1.3740	.6550	.0000	-.2030	-.0630	.6290			.4560		-.6450	-.4620	-.4090	-.3310	-.1810

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2270							.0470		-.0690
40.000	.2.0	.3820		.2400	.1060	-.2510	-.1830			-.0540
70.000		-.1280	-.2430	-.3290	-.1320	-.1350	-.2020	-.2310		
90.000		-.1080	-.1970	-.0330	-.1620	-.1760	-.2290	-.2520		
105.000				.0730	-.0220	-.1730	-.2700	-.2720		
110.000									-.2780	
120.000		-.1020	-.1340	.4730	.0300	-.2420	-.2620	-.2350	-.2150	
135.000				.3070	.1280	-.3190	-.1860	-.1200		
150.000		-.0540	.0690	.1450	.0620	-.1610	-.0800	-.1120		
165.000		-.0530		.1810	.2100	-.0510	-.0600	-.2620		
180.000		-.0520	.0480	.1850						

AMES 1 ...7 IA9 O2A + 33 + T9 ORBITER FUSELAGE (RBMB38)

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3880	.9380	.0000	-.2150	-.2360	-.0280			-.1420		-.2380	.1820	.0890	.0130	-.0170
20.000			.1490	-.2900	-.1930	-.0620			-.1530		-.2100				
40.000			.3450	-.2960	-.1420	-.0880			-.1460		-.1770	.1020	.0360	-.0190	-.0070
55.000			.4220	-.1810	-.1090	-.0680			-.0870		-.0770				
70.000			.4110	-.1700	-.1370	-.0380			.0640		-.0680	-.2680	-.2310	-.1970	-.1750
90.000		.9440	.3240	-.2000	-.1230	-.0040			.1460		-.1230	-.4380	-.2760	-.2370	-.1800
120.000			.1870	-.2140	-.0980	.3030			.2030		-.2620	-.4780	-.4290	-.2470	-.1330
142.000										-.4880					
150.000			.1260	-.2520	-.0620	.6030			.4020		-.4550	-.5160	-.4050	-.1940	-.0650
157.000								.6930							
162.000									.2800		-.6760	-.4360	-.3880	-.1880	-.0530
165.000															
169.000									.2200						
172.000							.9620								
180.000	1.3880	.6770	.0090	-.1870	-.0440	.7250			.4670		-.6340	-.5610	-.3280	-.2660	-.0460

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1840							.0100		-.0370
40.000	.1460	.2340		.1230	.0260	-.3120	-.1500			-.1090
70.000		-.1310	-.2270	-.2740	-.1520	-.1480	-.2230	-.2780		
90.000		-.0770	-.1680	-.0520	-.1560	-.2210	-.2600	-.2750		
105.000				.0270	-.0750	-.2190	-.2940	-.2840		
110.000									-.3050	
120.000		-.0570	.0670	.2730	-.0270	-.3030	-.2660	-.2370	-.2490	
135.000				.3270	.1810	-.2650	-.1830	-.1740		
150.000		-.0350	.1220	.2270	.1790	-.1160	-.1410	-.1940		
165.000		-.0300		.2320	.2310	-.0090	-.0830	-.3020		
180.000		-.0290	.0890	.1980						

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3750	.9600	.0000	-.3470	-.2630	-.0310			-.1480		-.2400	.1880	.1110	-.0050	-.0870
20.000			.1300	-.3950	-.2480	-.0620			-.1630		-.2730				
40.000			.2020	-.3990	-.2280	-.0990			-.1770		-.1380	.0690	-.0040	-.0820	-.0930
55.000			.2290	-.3460	-.2730	-.1010			-.1890		-.1270				
70.000			.2030	-.3430	-.3070	-.0430			.0130		-.1510	-.3340	-.2950	-.2520	-.1650
90.000		.7730	.1440	-.3490	-.2890	.0420			.0940		-.2040	-.4940	-.3380	-.2640	-.1500
120.000			.0630	-.3180	-.2190	.3120			.1100		-.3420	-.5410	-.4870	-.1780	-.0960

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB38)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5610					
150.000			.0410	-.2990	-.1250	.5370			.3230		-.5250	-.5390	-.3880	-.1920	-.0540
157.000								.5830							
162.000									.1840						
165.000											-.6950	-.5110	-.3390	-.2390	-.0570
169.000									.2000						
172.000							.9030								
180.000	1.3750	.7000	-.0130	-.2050	-.0580	.6790			.4340		-.6330	-.4680	-.4010	-.3080	-.1870

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
								-.0090		-.0610
.000	.2270									-.1600
40.000	.1310	.0260		.0600	-.0840	-.1980	-.1360			
70.000		-.1160	-.2280	-.2160	-.1350	-.1860	-.2150	-.2470		
90.000		-.0530	-.1510	-.0630	-.2010	-.1853	-.2330	-.2370		
105.000				-.0200	-.1350	-.1990	-.2290	-.2540		
110.000									-.3160	
120.000		-.0220	.0170	.1200	-.1050	-.3170	-.2540	-.2150	-.2700	
135.000				.5330	.2240	-.2720	-.2190	-.2260		
150.000		-.0140	.0860	.3320	.2690	-.1250	-.1830	-.2220		
165.000		-.0250		.3350	.3210	-.0310	-.1290	-.3430		
180.000		-.0610	.0470	.1860						

MACH (2) = 1.245 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3160	.9460	.0000	-.37[illegible]	-.2570	-.1210			-.1400		-.1930	-.1030	.0140	.0490	-.1240
20.000			.0920	-.4720	-.3210	-.0550			-.2040		-.2780				
40.000			.0550	-.4770	-.4060	-.1700			-.2440		-.1880	.0310	-.1360	-.1350	-.0440
55.000			.0350	-.4840	-.4480	-.1420			-.0960		-.1630				
70.000			-.0020	-.4870	-.4610	-.0370			.0000		-.2090	-.4260	-.3360	-.3120	-.0160
90.000		.5870	-.0450	-.4790	-.4380	.1160			.0540		-.2620	-.5300	-.3930	-.2490	-.0340
120.000			-.0820	-.4150	-.3460	.2590			-.0250		-.3870	-.5800	-.5380	-.1770	-.0330
142.000										-.6210					
150.000			-.0630	-.3470	-.2030	.3400			.2040		-.6270	-.5420	-.3770	-.3070	-.0800
157.000								.4690							
162.000									.1050						
165.000											-.6870	-.5560	-.3780	-.3860	-.1390
169.000									.1720						
172.000							.8050								

AMES 11-707 IA9 C0A + S3 + T9 ORBITER FUSELAGE (RBMB38)

MACH (2) = 1.245 BETAT (5) = 8.250

SECTION (1)ORBITER FUSLLAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3160	.6350	-.0380	-.2350	-.0650	.4950			.3870		-.6580	-.4630	-.5710	-.5700	-.2820
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2160							-.0020		-.0580					
40.000	.1220	-.1290		-.1580	-.1750	-.1660	-.1550			-.1960					
70.000		-.0900	-.2220	-.1860	-.1030	-.1860	-.2770	-.3200							
90.000		-.0460	-.1490	-.0500	-.1960	-.2100	-.2830	-.3060							
105.000				-.0170	-.1660	-.2140	-.2910	-.3170							
110.000									-.3500						
120.000		-.0060	-.0430	.2520	-.1290	-.3970	-.3200	-.2750	-.3130						
135.000				.6220	.2430	-.3120	-.2660	-.3060							
150.000		-.0250	.0130	.2510	.1020	-.2200	-.2750	-.3170							
165.000		-.0150		.2390	.3150	-.1300	-.1990	-.3850							
180.000		-.0770	.0160	.1570											

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM039) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.105 BETAT (1) = -8.180

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2500	.7660	.0000	-.5030	-.1440	-.0040			.0940		-.0610	-.1430	-.2460	-.3740	-.4390
20.000			.2430	-.3580	-.1700	-.1120			.1160		-.0450				
40.000			.4480	-.1650	.0050	-.1440			-.1750		-.1300	-.1810	-.1900	-.2120	-.1510
55.000			.5450	.0240	.2140	.2130			.1690		.1270				
70.000			.5830	.1100	.2970	.3050			.2290		.1340	-.3190	-.2290	-.0190	-.0140
90.000		1.1240	.5830	.1690	.3610	.3570			.2550		.1390	-.3950	-.3080	-.0310	-.0330
120.000			.5820	.3110	.4600	.5190			.3510		.1310	-.4130	-.2130	-.0690	-.0350
142.000										-.2370					
150.000			.5190	.3520	.4840	.7620			.5260		-.2110	-.2100	-.2060	-.1490	-.0620
157.000								.7930							
162.000									.4480						
165.000											-.3780	-.1740	-.2020	-.1470	-.0580
169.000									.3220						
172.000							.9570								
180.000	1.2500	.8790	.3060	.2830	.3810	.8000			.5680		-.7060	-.3150	-.4320	-.3010	-.3090

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1250							-.0220		-.1760
40.000	.2380	.3540		-.1050	-.1290	-.4750	-.3580			-.2010
70.000		.0850	.0340	.1650	.2190	.0150	-.0020	.1210		
90.000		.1020	.1400	.2430	.1820	.0060	-.0350	.1440		
105.000				.3040	.1500	.0040	-.0370	.1210		
110.000									-.1830	
120.000		.0740	.2950	.5440	.0530	-.0460	.0380	.0900	-.0460	
135.000				.5960	.2890	.0820	.1560	.1180		
150.000		.0361	.3140	.3760	.1760	.2150	.2370	.1090		
165.000		.0573		.4360	.3900	.3140	.2860	-.1390		
180.000		-.2250	.1390	.2300						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBNB39)

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3050	.7890	.0000	-.5270	-.2800	.1690			.0900		-.0220	-.1340	-.2240	-.3450	-.1890
20.000			.1990	-.4180	-.1430	.1510			.0880		-.0320				
40.000			.3300	-.2990	-.0130	.0640			-.0010		-.1260	-.1770	-.2110	-.2660	-.1780
55.000			.3880	-.2110	.1280	.1990			.1350		-.0140				
70.000			.4030	-.1530	.1740	.2530			.1630		-.0390	-.3870	-.3290	-.0860	-.0330
90.000		.9990	.4040	-.0720	.2470	.2770			.1630		-.0710	-.4550	-.3890	-.0980	-.0550
120.000			.4430	.1660	.3640	.4280			.2040		-.0650	-.4720	-.2540	-.1200	-.0430
142.000										-.5480					
150.000			.4450	.2960	.4560	.7250			.4730		-.3190	-.2430	-.2330	-.1500	-.0660
157.000								.7260							
162.000									.3940						
165.000											-.6440	-.2340	-.2420	-.1480	-.0800
169.000									.3380						
172.000							.9830								
180.000	1.3050	.9190	.3270	.3100	.4350	.8600			.6040		-.6940	-.3610	-.2820	-.1760	-.1240

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1760							-.0380		-.1490
40.000	.1950	.2570		-.2180	-.2590	-.5120	-.3410			-.2440
70.000		.0780	.1220	.1340	.1460	-.0450	-.1030	.0000		
90.000		.0940	.1880	.1910	.0970	-.0470	-.1020	-.0120		
105.000				.2270	.0270	-.0480	-.0930	-.0540		
110.000									-.2500	
120.000		.0840	.3420	.4200	-.0710	-.0970	-.0240	-.0560	-.1560	
135.000				.7030	.3070	-.0890	.0660	.0140		
150.000		.0550	.3690	.4650	.3040	.0700	.1400	.0200		
165.000		.0540		.4900	.4620	.1840	.1780	-.2100		
180.000		-.0170	.3080	.4100						

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEFENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3140	.7840	.0000	-.5370	-.2540	.1830			.1120		-.0020	-.1290	-.2120	-.3030	.0410
20.000			.1450	-.4670	-.3050	.1740			.1090		-.0240				
40.000			.2 70	-.3970	-.1540	.1300			.0580		-.1300	-.1870	-.2490	-.3100	-.0490
55.000			.2 .5	.3710	.1300	.1730			.0910		-.0910				
70.000			.2310	-.3560	.1590	.2000			.1000		-.1550	-.4440	-.4010	-.1210	-.0550
90.000		.8570	.2341	-.2940	.1660	.1960			.0750		-.1950	-.5070	-.4500	-.1270	-.0710
120.000			.3030	-.0020	.2550	.3170			.0570		-.2290	-.5290	-.3060	-.1660	-.0780

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-FT7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB39)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6470					
150.000			.3770	.2250	.4000	.6490			.4000		-.4250	-.3300	-.2160	-.1660	-.0770
157.000								.6130							
162.000									.3070						
165.000											-.7380	-.2960	-.1790	-.1440	-.0820
169.000									.3310						
172.000							.9640								
180.000	1.3140	.9340	.3420	.3240	.4580	.8770			.6140		-.6700	-.4940	-.1850	-.1450	-.0740

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1710							-.0020		-.1350
40.000	.1350	.1350		-.3110	-.2930	-.3260	-.3280			-.2600
70.000		.1010	.1480	.1100	.0930	-.0980	-.1710	-.0970		
90.000		.1160	.2090	.1430	.0330	-.1180	-.1620	-.1170		
105.000				.1460	-.0510	-.1160	-.1520	-.1520		
110.000									-.3120	
120.000		.1020	.3390	.2500	-.1880	-.1930	-.1130	-.1430	-.2540	
135.000				.7410	.2720	-.2520	-.0800	-.0980		
150.000		.0550	.3840	.5630	.4010	-.0420	-.0470	-.0790		
165.000		.0400		.5300	.4870	.0570	.0260	-.3080		
180.000		.0010	.3530	.4570						

MACH (1) = 1.104 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2980	.7860	.0000	-.5190	-.2610	.1830			.1020		-.0170	-.1300	-.2270	-.3370	-.0670
20.000			.0840	-.5080	-.3350	.1750			.0980		-.0430				
40.000			.0900	-.4830	-.3240	.1610			.0750		-.1120	-.2270	-.3060	-.3810	.0000
55.000			.0750	-.5020	-.2560	.1500			.0550		-.1500				
70.000			.0670	-.5030	-.0460	.1520			.0430		-.2430	-.5140	-.4720	-.1380	-.0660
90.000		.695	.0700	-.4410	-.0760	.1130			-.0080		-.3030	-.5740	-.5060	-.1620	-.0850
120.000			.1720	-.1770	.0740	.1810			-.0900		-.3840	-.6070	-.3240	-.2430	-.1200
142.000										-.7340					
150.000			.3000	.1280	.2930	.5370			.3050		-.6200	-.4440	-.2140	-.1970	-.0890
157.000								.4620							
162.000									.1940						
165.000											-.7860	-.4460	-.1600	-.2040	-.1570
169.000									.2970						
172.000							.9030								

DATE 13 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA > S3 + TS ORBITER FUSELAGE (RBMB39)

MACH (1) = 1.104 BETAT (4) = 4.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2980	.9270	.3410	.3100	.4370	.8520			.5980		-.6630	-.3480	-.2440	-.1710	-.1130
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1900							-.0420		-.1610					
40.000	.1250	-.0400		-.2780	-.2380	-.2700	-.2660			-.2820					
70.000		.1300	.1640	.0900	.0670	-.1550	-.2220	-.1610							
90.000		.1440	.2130	.1250	-.0010	-.1790	-.2090	-.1830							
105.000				.0900	-.1500	-.1800	-.2050	-.2050							
110.000									-.3590						
120.000		.1490	.3160	.1020	-.3120	-.3140	-.2040	-.2160	-.3230						
135.000				.7180	.2080	-.4050	-.3860	-.2490							
150.000		.0690	.3530	.4880	.4160	-.0710	-.1620	-.2420							
165.000		.0040		.4880	.4520	-.0410	-.0910	-.3990							
180.000		-.0150	.3170	.4110											

MACH (1) = 1.099 BETAT (5) = 8.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2370	.7340	.0000	-.5170	-.1540	-.0230			.1010		-.0410	-.1500	-.2590	-.3600	-.4260
20.000			.0080	-.5570	-.2140	.1490			.0800		-.0870				
40.000			-.0470	-.5790	-.4470	.1560			.0640		-.1470	-.2770	-.3900	-.4810	-.1050
55.000			-.0910	-.6340	-.4360	.1220			.0380		-.1890				
70.000			-.1260	-.6440	-.4030	.0560			.0020		-.3100	-.5730	-.5300	-.1880	-.0920
90.000		.5310	-.1100	-.5810	-.2990	-.0280			-.0780		-.3890	-.6400	-.4930	-.2160	-.1070
120.000			.0100	-.5450	-.1190	.0170			-.2820		-.5240	-.6750	-.3830	-.3350	-.1640
142.000										-.8090					
150.000			.1790	.0020	.1420	.3800			.1430		-.7310	-.5000	-.3050	-.2410	-.2500
157.000								.2990							
162.000									.0780						
165.000											-.8220	-.4400	-.3980	-.3880	-.3300
169.000									.2370						
172.000							.7890								
180.000	1.2370	.6860	.2870	.2580	.3660	.7720			.5350		-.6620	-.3620	-.4060	-.2860	-.2900
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1070							-.0200		-.1800					
40.000	.0640	-.0730		-.3030	-.3050	-.3030	-.3040			-.3240					

AMES 11-707 IA9 OBA + S3 + T9 ORBITER FUSELAGE (RBMB39)

MACH (1) = 1.099 BETAT (5) = 8.310

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1360	.1520	.0550	.0360	-.2290	-.2840	-.2580		
90.000		.1190	.1810	.0890	-.0380	-.2260	-.2720	-.2510		
105.000				.0870	-.1800	-.2560	-.2820	-.2810		
110.000									-.3940	
120.000		.1290	.2730	.1130	-.3770	-.3740	-.3150	-.3300	-.3800	
135.000				.4520	.1840	-.4840	-.5580	-.5550		
150.000		-.0920	.2190	.3320	.2910	-.1170	-.2540	-.3420		
165.000		-.0960		.3230	.2830	-.1150	-.2070	-.4200		
180.000		-.1960	.0890	.2230						

MACH (2) = 1.251 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3160	.8570	.0000	-.2730	-.0580	-.2290			-.0260		.1560	.0390	-.0770	-.2080	-.3190
20.000			.4020	-.1440	-.0370	-.2060			.0130		.1540				
40.000			.5970	.0380	.1440	-.2060			-.0700		-.1270	-.0180	-.0310	-.1170	-.1030
55.000			.6900	.1840	.3080	.1440			.2820		.1610				
70.000			.7130	.2250	.3600	.2800			.3310		.1810	-.1660	-.1330	.0440	.0480
80.000		1.1990	.6930	.2480	.4080	.3750			.3530		.1390	-.2250	-.1970	.0320	.0310
120.000			.6480	.3460	.4790	.5740			.4560		.1790	-.2590	-.1110	-.0050	.0190
142.000										-.1240					
150.000			.5670	.3600	.4830	.8240			.6350		-.1360	-.1090	-.1190	-.0900	-.0130
157.000								.8770							
162.000									.5580						
165.000											-.2560	-.0910	-.1000	-.0890	-.0090
169.000									.4290						
172.000							1.0260								
180.000	1.3160	.9150	.3520	.2940	.3890	.8630			.6550		-.3280	-.2170	-.2900	-.2290	-.2510

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.3280							.0150		-.1470
40.000	-.0890	.3520		.0080	-.0570	-.2810	-.5480			.0060
70.000		-.0390	.0090	.0640	.2040	.0810	.0070	.0270		
90.000		-.0230	.0520	.1860	.1370	.0770	-.0230	.0550		
105.000				.2480	.1390	.0720	-.0380	.0540		
110.000									-.0910	
120.000		-.0260	.1200	.5630	.1370	-.0270	.0610	.1190	.0020	
135.000				.5810	.3290	-.1230	.2350	.2220		
150.000		-.0410	.1720	.3060	.1860	.2220	.3170	.2190		

AMES 11-70T IA9 OEA + S3 + T5 ORBITER FUSELAGE (RBMS39)

MACH (2) = 1.251 BETAT (1) = -8.120

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0240		.3880	.4290	.3500	.3630	-.0090		
180.000		-.2700	-.0400	.1110						

MACH (2) = 1.249 BETAT (2) = -4.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3630	.8880	.0000	-.2920	-.0930	-.0580			.2760		.1590	.0270	-.0800	-.1990	-.2790
20.000			.3560	-.1910	-.0580	-.1200			.2320		.1540				
40.000			.4790	-.0790	.1030	-.1880			-.0060		.0480	-.0150	-.0670	-.1560	-.1700
55.000			.5340	-.0100	.2870	.0850			.1490		.1180				
70.000			.5700	.0110	.3200	.2120			.2090		.0380	-.2100	-.1770	-.0240	.0050
90.000		1.0800	.5300	.0300	.3560	.2950			.1990		.0030	-.2680	-.2390	-.0310	-.0060
120.000			.5300	.1820	.4190	.4980			.3090		-.0520	-.3170	-.1490	-.0660	-.0080
142.000										-.3560					
150.000			.5130	.2950	.4740	.7970			.5860		-.2100	-.1730	-.1400	-.0910	-.0120
157.000								.8210							
162.000									.5090						
165.000											-.4720	-.1560	-.1480	-.0870	-.0210
169.000									.4490						
172.000							1.0570								
180.000	1.3630	.9570	.3820	.3080	.4460	.9270			.6920		-.4820	-.2890	-.2270	-.1260	-.0730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1960							.0020		-.1310
40.000	-.1390	.2420		-.0720	-.1640	-.3240	-.3000			-.0470
70.000		-.0850	.0170	.0920	.1580	.0290	-.0400	.0080		
90.000		-.0590	.0640	.1580	.0970	.0260	-.0590	.0140		
105.000				.1930	.0640	.0280	-.0620	.0010		
110.000									-.1290	
120.000		-.0260	.1700	.4530	.0370	-.0970	.0220	.0460	-.0640	
135.000				.7140	.3590	-.0730	.1080	.1080		
150.000		-.0130	.1810	.3770	.3220	.1340	.1780	.1110		
165.000		-.0100		.4330	.5160	.2570	.2310	-.1000		
180.000		-.0430	.1110	.3190						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM839)

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
.000	1.3730	.8920	.0000	-.3050	-.0840	.1250			.2760		.1490	.0210	-.0720	-.1750	-.2550
20.000			.2960	-.2550	-.1120	.1250			.2570		.1270				
40.000			.3520	-.1920	-.0420	-.1490			.1300		.0370	-.0360	-.1090	-.1880	-.1930
55.000			.3700	-.1730	.0060	.0530			.1810		.0430				
70.000			.3800	-.1740	.1270	.1680			.0840		-.0280	-.2950	-.2570	-.0800	-.0110
90.000		.9390	.3600	-.1350	.2390	.2290			.1230		-.1330	-.3310	-.3190	-.0820	-.0200
120.000			.3920	-.0070	.2890	.4040			.1780		-.1900	-.4050	-.2100	-.1130	-.0270
142.000										-.4300					
150.000			.4400	.1920	.4210	.7310			.5150		-.2990	-.2720	-.1640	-.1060	-.0270
157.000								.7130							
162.000									.4240						
165.000											-.5450	-.2290	-.1630	-.0870	-.0300
169.000									.4430						
172.000							1.0400								
180.000	1.3730	.9700	.3840	.3000	.4740	.9440			.7010		-.4720	-.3650	-.1420	-.0830	-.0260

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.1050							.0400		-.1410
40.000	-.1430	.1280		-.1730	-.2240	-.3640	-.2900			-.1660
70.000		-.0990	.0420	.1020	.1220	-.0170	-.0770	-.0300		
90.000		-.0710	.0930	.1310	.0760	-.0170	-.0830	-.0440		
105.000				.1310	.0180	-.0190	-.0810	-.0570		
110.000									-.1780	
120.000		-.0470	.1820	.3020	-.0570	-.1750	-.0420	-.0470	-.1260	
135.000				.7900	.3490	-.1420	-.0770	-.0310		
150.000		-.0210	.1120	.4200	.4660	.0700	.0340	-.0230		
165.000		-.0150		.4850	.5910	.1710	.1320	-.2050		
180.000		-.0100	.0160	.4330						

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0071	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5129
PHI															
.000	1.3480	.8810	.0000	-.2900	-.1090	-.0130			.2910		.1550	.0260	-.0810	-.1980	-.2810
20.000			.2360	-.2950	-.1470	.0410			.2790		.1290				
40.000			.2280	-.2840	-.1510	.0640			.2060		.0420	-.0760	-.1620	-.2460	-.2950
55.000			.2050	-.3070	-.1780	.0550			.1020		.0210				
70.000			.2030	-.3130	-.2070	.1510			.0930		-.0370	-.3530	-.3270	-.1370	-.0330
90.000		.7630	.2140	-.2690	-.0950	.1790			.0530		-.0240	-.3930	-.3720	-.1110	-.0270
120.000			.2710	-.1340	.1670	.2930			.0490		.0240	.4910	.0680	-.1180	

MACH (2) = 1.246 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5080					
150.000			.3610	.1200	.3160	.6310			.4190		-.4500	-.3380	-.1840	-.1220	-.0370
157.000								.5710							
162.000									.3180						
165.000											-.5790	-.3460	-.1280	-.1320	-.1160
169.000									.4140						
172.000							.9800								
180.000	1.3480	.9670	.3840	.3040	.4430	.9210			.6800		-.4700	-.3390	-.2020	-.1190	-.0670

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0720							.0180		-.1380
40.000	.0080	.0120		-.1990	-.2150	-.2410	-.2190			- 2250
70.000		-.1050	.0720	.1050	.1090	-.0520	-.1160	-.0770		
90.000		-.0770	.1090	.1120	.0610	-.0650	-.1190	-.0860		
105.000				.0950	-.0660	-.0740	-.1200	-.1020		
110.000									-.2130	
120.000		-.0760	.1260	.1520	-.1860	-.2660	-.1140	-.1250	-.1850	
135.000				.6810	.3130	-.2430	-.2500	-.2540		
150.000		-.0330	.1050	.2710	.3830	.0680	-.0460	-.1390		
165.000		-.0820		.2840	.4390	.1030	.0150	-.2670		
180.000		-.0420	.1080	.3210						

MACH (2) = 1.245 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3070	.8450	.0000	-.2650	-.0530	-.2480			-.0150		.1680	.0530	-.0760	-.1980	-.3250
20.000			.1720	-.3320	-.1250	-.2450			.1940		.1310				
40.000			.1000	-.3720	-.2840	-.0340			.1940		.0440	-.1140	-.2190	-.3330	-.2820
55.000			.0480	-.4270	-.3390	.0600			.0130		-.0220				
70.000			.0240	-.4400	-.3640	.1410			.0170		-.1530	-.3920	-.3800	-.1290	-.0570
90.000		.6 90	.0330	-.3950	-.3030	.1450			-.0130		-.3070	-.4610	-.3940	-.1380	-.0640
120.000			.1270	-.2380	-.0510	.1870			-.1000		-.3800	-.5340	-.3260	-.2360	-.1130
142.000										-.5690					
150.000			.2550	.0560	.1810	.4610			.2610		-.5290	-.4140	-.2260	-.1830	-.1810
157.000								.4190							
162.000									.2230						
165.000											-.5960	-.3980	-.2590	-.3160	-.2650
169.000									.3650						
172.000							.8610								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB39)

MACH (2) = 1.245 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3070	.9240	.3520	.2760	.3670	.8360			.6270		-.4700	-.2430	-.2690	-.2180	-.2320
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.3020							.0490		-.1520					
40.000	-.0490	-.0190		-.2220	-.2520	-.2450	-.2360			-.3070					
70.000		-.0330	.0960	.1100	.1220	-.0820	-.1510	-.1400							
90.000		-.0450	.1350	.1380	.0530	-.0940	-.1510	-.1350							
105.000				.1430	-.0860	-.1240	-.1560	-.1550							
110.000									-.2710						
120.000		-.0560	.1880	.1670	-.2320	-.2850	-.1940	-.2070	-.2530						
135.000				.4340	.3030	-.3360	-.3650	-.3900							
150.000		-.2400	.0860	.2770	.2940	.0140	-.1180	-.2120							
165.000		-.1790		.2700	.3140	-.0070	-.0860	-.3060							
180.000		-.2570	-.0150	.1430											

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

A[illegible] = -1.000 ORBINC = .900
RUDDER = -5.000 ELEVON = .000
RUDF[illegible] = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2450	.7950	.0000	-.4960	-.2040	-.1110			.1020		-.[illegible]990	-.1570	-.2630	-.3780	-.3690
20.000			.2830	-.3440	-.2160	-.0910			.1220		-.[illegible]870				
40.000			.4830	-.1420	-.0250	-.1110			-.1650		-.1130	-.1660	-.1810	-.2070	-.1320
55.000			.5700	.0130	.1620	.2170			.1850		.1160				
70.000			.5840	.0630	.2210	.2870			.2350		.[illegible]000	-.3340	-.2550	-.0910	-.0600
90.000		1.1110	.5480	.0740	.2820	.3330			.2630		.[illegible]980	-.4140	-.3580	-.0970	-.0890
120.000			.4760	.1660	.3590	.4850			.3640		.[illegible]070	-.4570	-.2810	-.1410	-.1070
142.000										-.2750					
150.000			.3640	.1620	.3580	.7160			.4820		-.[illegible]320	-.2910	-.2820	-.2180	-.1300
157.000								.7560							
162.000									.3910						
165.000											-.[illegible]490	-.2520	-.2700	-.2080	-.1180
169.000									.2370						
172.000							.9220								
180.000	1.2450	.7820	.1490	.1230	.2600	.7620			.5080		-.[illegible]540	-.4080	-.4990	-.4420	-.4040

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1470							.0010		-.111[illegible]
40.000	.2570	.3860		-.0420	.0010	-.4510	-.3220			-.136[illegible]
70.000		.0200	-.1180	.0720	.1830	-.0270	-.1330	-.0190		
90.000		.0390	-.0490	.1810	.1340	-.0450	-.1550	-.0600		
105.000				.2530	.0880	-.0580	-.1490	-.0820		
110.000									-.1460	
120.000		.0070	.1820	.5400	.0290	-.1460	-.0170	-.0330	-.1310	
135.000				.5100	.2190	-.1410	.0930	.0580		
150.000		.0000	.2460	.3000	.0980	.1070	.1680	.0530		
165.000		.0500		.3640	.3340	.1990	.2040	-.1810		
180.000		-.1420	.1200	.2140						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB40)

MACH (1) = 1.101 BETAT (2) = -4.080

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	.8130	.0000	-.4900	-.2660	.1490			.1330		-.0010	-.1090	-.2030	-.3180	-.0590
20.000			.2430	-.3800	-.2280	.0950			.1380		-.0090				
40.000			.3700	-.2570	-.0020	-.0840			.0500		-.0780	-.1490	-.1920	-.2520	-.1610
55.000			.4140	-.1870	.1150	-.0140			.1710		.0160				
70.000			.4160	-.1710	.1390	.1110			.1840		-.0240	-.3820	-.3290	-.1350	-.0640
90.000		.9830	.3830	-.1580	.2070	.1860			.1820		-.0680	-.4520	-.4040	-.1440	-.0750
120.000			.3540	.0060	.2900	.3760			.2150		-.1500	-.4960	-.3070	-.1740	-.0630
142.000										-.5660					
150.000			.3250	.1080	.3490	.6760			.4330		-.4040	-.3220	-.2950	-.1980	-.0830
157.000								.6870							
162.000									.3380						
165.000											-.7060	-.3050	-.3010	-.1980	-.0850
169.000									.2630						
172.000							.9450								
180.000	1.2930	.8520	.1750	.1390	.3270	.8150			.5360		-.7470	-.4500	-.3760	-.2230	-.1340

X/LB	.5873	.6626	.7380	.7869	.8233	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							-.0310		-.0960
40.000	.2210	.2870		-.1730	-.1400	-.4800	-.2680			-.1890
70.000		.0040	-.0580	.0720	.1240	-.0760	-.1680	-.1120		
90.000		.0340	.0690	.1460	.0630	-.0920	-.1750	-.1200		
105.000				.1890	.0250	-.0920	-.1620	-.1360		
110.000									-.2900	
120.000		.0330	.2550	.3880	-.0580	-.1810	-.0790	-.0910	-.2010	
135.000				.6430	.2590	-.1530	.0170	-.0080		
150.000		.0250	.3060	.3960	.2420	-.0190	.0760	-.0210		
165.000		.0260		.4270	.4050	.0940	.0960	-.2470		
180.000		-.0180	.2450	.3510						

MACH (1 = 1.101 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.8230	.0000	-.5130	-.2330	.1700			.1470		.0210	-.1010	-.1820	-.2840	.0700
20.000			.1810	-.4390	-.2820	.1750			.1410		.0000				
40.000			.2450	-.3640	-.1930	.1630			.0940		-.0660	-.1600	-.2290	-.3020	.0220
55.000			.2580	-.3460	-.0650	.0000			.1250		-.0580				
70.000			.2490	-.3460	.1390	.0270			.1230		-.1290	-.4480	-.4060	-.1910	-.0700
90.000		.8460	.2180	-.3180	.1750	.0940			.0920		-.1790	-.5100	-.4660	-.1740	-.0780
120.000			.2320	-.1580	.2130	.2800			.0620		-.2830	-.5600	-.3520	-.1730	-.0650

MACH (1) = 1.101 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6670					
150.000			.2610	.0340	.3180	.6100			.3630		-.4970	-.4170	-.2960	-.1930	-.0790
157.000								.5840							
162.000									.2560						
165.000											-.7910	-.3810	-.2530	-.1800	-.0690
169.000									.2610						
172.000							.9280								
180.000	1.2650	.8370	.1950	.1480	.3590	.8300			.5520		-.7310	-.5860	-.2350	-.1830	-.0860

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.1990							-.0080		-.0860
40.000	.1740	.1720		-.2690	-.2220	-.4170	-.2600			-.2250
70.000		.0140	.0480	.0580	.0740	-.1260	-.2050	-.1580		
90.000		.0430	.1210	.1020	.0100	-.1340	-.2030	-.1750		
105.000				.1110	-.0490	-.1340	-.1990	-.1930		
110.000									-.3300	
120.000		.0530	.2880	.2670	-.1680	-.2200	-.1610	-.1650	-.2650	
135.000				.6920	.2500	-.2600	-.1240	-.1120		
150.000		.0450	.3360	.4840	.3460	-.0860	-.0950	-.1240		
165.000		.0370		.4720	.4120	.0110	-.0400	-.3300		
180.000		.0260	.3030	.4090						

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2720	.8090	.0000	-.5040	-.2460	.1760			.1370		.0050	-.0990	-.2030	-.3070	-.0430
20.000			.1240	-.4810	-.3110	.1630			.1280		-.0210				
40.000			.1210	-.4660	-.3060	.1300			.0960		-.0860	-.1970	-.2830	-.3660	.0340
55.000			.0990	-.4680	-.3120	-.0790			.0850		-.1210				
70.000			.0750	-.4910	-.2680	-.0130			.0700		-.2210	-.5090	-.4720	-.2030	-.0710
90.000		.6890	.0560	-.4540	-.0490	.0320			.0020		-.2860	-.5680	-.5210	-.1910	-.0800
120.000			.1010	-.3200	.0310	.1750			-.0890		-.4080	-.6190	-.4020	-.2210	-.0980
142.000										-.7440					
150.000			.1870	-.0480	.2050	.5140			.2700		-.6570	-.5330	-.2640	-.2280	-.1120
157.000								.4450							
162.000									.1510						
165.000											-.8170	-.5210	-.2180	-.2310	-.1500
169.000									.2350						
172.000							.8690								

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB4D)

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2720	.8300	.1870	.1410	.3240	.8050			.5300		-.7090	-.4230	-.3390	-.2190	-.1330

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							-.0260		-.1000
40.000	.1470	-.0190		-.2020	-.2020	-.2300	-.2110			-.2440
70.000		.0800	.1090	.0530	.0350	-.1810	-.2670	-.2320		
90.000		.1020	.1680	.0890	-.0300	-.1940	-.2690	-.2350		
105.000				.0650	-.1470	-.2050	-.2690	-.2510		
110.000									-.3720	
120.000		.1060	.2890	.1480	-.2720	-.3250	-.2420	-.2390	-.3280	
135.000				.6930	.1960	-.3900	-.3450	-.2630		
150.000		.0810	.3150	.4850	.3600	-.1190	-.2070	-.2550		
165.000		.0400		.4620	.4170	-.0970	-.1250	-.4040		
180.000		.0140	.2570	.3440						

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2300	.7750	.0000	-.4820	-.1990	-.1280			.1240		-.0240	-.1410	-.2510	-.3410	-.2930
20.000			.0530	-.5210	-.2260	.0480			.1020		-.0745				
40.000			-.0080	-.5480	-.4270	.0800			.0740		-.1450	-.2720	-.3940	-.4810	-.0770
55.000			-.0660	-.6050	-.4740	-.0580			.0470		-.1730				
70.000			-.1140	-.6240	-.4670	-.0240			.0050		-.2780	-.5780	-.5510	-.2350	-.0320
90.000		.5140	-.1130	-.5840	-.4170	-.0120			-.1200		-.3740	-.6350	-.5800	-.2390	-.0670
120.000			-.0390	-.4360	-.1510	.0580			-.2300		-.5610	-.6860	-.4010	-.3270	-.1260
142.000										-.8030					
150.000			.0840	-.1290	.0630	.3780			.1220		-.7510	-.5850	-.3580	-.2810	-.1690
157.000								.2930							
162.000									.0540						
165.000											-.8400	-.5350	-.4260	-.4100	-.2800
169.000									.1940						
172.000							.7590								
180.000	1.2300	.7860	.1560	.1130	.2570	.7320			.4810		-.7240	-.4190	-.4520	-.4130	-.3760

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1480							.0090		-.0910
40.000	.0950	-.0050		-.2530	-.2610	-.2630	-.2610			-.2960

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.1010	.1030	.0330	.0310	-.2190	-.2940	-.2790		
90.000		.1060	.1530	.0770	-.0400	-.2320	-.3050	-.2860		
105.000				.0640	-.1930	-.2400	-.3060	-.3020		
110.000									-.3810	
120.000		.1160	.2420	.1020	-.3380	-.3990	-.3070	-.3250	-.3650	
135.000				.5650	.2310	-.4780	-.5030	-.4740		
150.000		-.0880	.1340	.2550	.1980	-.1510	-.2840	-.3720		
165.000		-.0020		.2820	.2780	-.1910	-.2440	-.4040		
180.000		-.1640	.1200	.2210						

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0003	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.9030	.0000	-.2670	-.0610	-.2370			-.2560		.1710	.0650	-.0650	-.2020	-.3310
20.000			.4340	-.1340	-.0530	-.2430			-.1880		-.0370				
40.000			.6310	.0590	.1350	-.2210			-.2200		-.0760	-.0900	-.0020	-.1020	-.1020
55.000			.7130	.1960	.2860	.0900			.1750		.1700				
70.000			.7230	.2140	.3150	.2080			.2490		.1530	-.1870	-.1450	-.0080	-.0090
90.000		1.1830	.6670	.1860	.3550	.3110			.2910		.0920	-.2470	-.2260	-.0150	-.0290
120.000			.5630	.2050	.3930	.5110			.4380		-.0150	-.2960	-.1920	-.0660	-.0560
142.000										-.1620					
150.000			.4650	.1860	.3710	.7630			.5800		-.2340	-.2050	-.1910	-.1380	-.0810
157.000								.8330							
162.000									.4950						
165.000											-.3720	-.1860	-.1670	-.1380	-.0700
169.000									.3470						
172.000							.9820								
180.000	1.2990	.8220	.2380	.1360	.2690	.8060			.5890		-.5900	-.3160	-.3510	-.3300	-.3440

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0700							.0350		-.1130
40.000	-.1110	.4350		.0700	.0360	-.2690	-.5480			.0270
70.000		-.0990	-.0650	-.0800	.1550	.0300	-.0480	-.0510		
90.000		-.0830	-.0430	.1380	.0700	.0330	-.0800	-.0750		
105.000				.2230	.0950	.0330	-.1040	-.0770		
110.000									-.1350	
120.000		-.0990	-.0110	.5730	.1230	-.0750	-.0780	.0470	-.0470	
135.000				.4700	.2600	-.1890	.1370	.1480		
150.000		-.1100	.1130	.2250	.1250	.0860	.2380	.1580		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB40)

MACH (2) = 1.244 BETAT (1) = -8.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0840		.3140	.3910	.2380	.2770	-.0510		
180.000		-.3000	-.0430	.1330						

MACH (2) = 1.245 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3200	.9440	.0000	-.2770	-.0780	-.1560			-.1340		-.2060	.0690	-.0960	-.1770	-.2760
20.000			.3880	-.1690	-.0510	-.1840			-.1200		.1690				
40.000			.5090	-.0520	.0750	-.2060			-.1480		-.0630	-.0050	-.0330	-.1360	-.1690
55.000			.5530	.0110	.1700	.0460			.0060		.0810				
70.000			.5590	.0150	.1940	.1610			.1190		-.0520	-.2610	-.1990	-.0670	-.0540
90.000		1.0600	.5100	.0050	.3740	.2570			.1930		-.0830	-.3090	-.3000	-.0680	-.0590
120.000			.4550	.0320	.3610	.4600			.3150		-.1400	-.3920	-.2300	-.1090	-.0800
142.000										-.3770					
150.000			.4200	.0940	.3670	.7470			.5390		-.28[illegible]	-.2790	-.2330	-.1630	-.0740
157.000								.7840							
162.000									.4500						
165.000											-.5280	-.2450	-.2360	-.1530	-.0770
169.000									.3730						
172.000							1.0130								
180.000	1.3200	.8640	.2720	.1040	.3260	.8710			.6220		-.5430	-.3820	-.2970	-.1960	-.1260

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0220							.0040		-.1020
40.000	-.1240	.3170		-.0410	-.0740	-.3110	-.2910			-.0320
70.000		-.1260	-.0730	-.0160	.1040	-.0180	-.0900	-.0850		
90.000		-.0950	-.0150	.1000	.0410	-.0170	-.1130	-.0990		
105.000				.1590	.0410	-.0170	-.1330	-.0980		
110.000									-.1720	
120.000		-.0760	.0860	.4090	.0410	-.1380	-.0620	-.0250	-.1010	
135.000				.6090	.3010	-.1640	.0440	.0580		
150.000		-.0620	.1440	.3010	.2540	.0550	.1150	.0540		
165.000		-.0550		.3590	.4410	.1790	.1590	-.1400		
180.000		-.1020	.1040	.2570						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB40)

MACH (2) = 1.248 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3280	.9530	.0000	-.3610	-.1620	.0520			-.0710		.1490	.0540	-.0530	-.1410	-.2600
20.000			.2850	-.3130	-.1840	.0390			-.0620		.0770				
40.000			.3610	-.2180	-.1090	-.1260			-.0430		-.0380	-.0390	-.0830	-.1670	-.2030
55.000			.3780	-.1790	-.0640	.0460			.0350		.0110				
70.000			.3740	-.1870	-.0700	.1460			.0800		-.1120	-.3270	-.3070	-.1290	-.0630
90.000		.9230	.3380	-.1610	-.0410	.2200			.1330		-.1840	-.4040	-.3600	-.1160	-.0650
120.000			.3290	-.0900	.2080	.3950			.1990		-.2290	-.4690	-.3130	-.1600	-.0620
142.000										-.4530					
150.000			.3460	-.0090	.2910	.6980			.4770		-.3520	-.3450	-.2690	-.1650	-.0660
157.000								.6880							
162.000									.3720						
165.000											-.5910	-.3050	-.2390	-.1660	-.0700
169.000									.3720						
172.000							1.0010								
180.000	1.3280	.8730	.2800	.0980	.3240	.8960			.6320		-.5290	-.4330	-.2010	-.1780	-.0650

X/LB	.5873	.6678	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0010							.0180		-.0950
40.000	-.0770	.1990		-.1350	-.1600	-.3560	-.2700			-.1630
70.000		-.1130	-.0320	.0140	.0760	-.0610	-.1280	-.1100		
90.000		-.0910	.0290	.0760	.0150	-.0550	-.1410	-.1130		
105.000				.0930	.0050	-.0560	-.1490	-.1230		
110.000									-.2140	
120.000		-.0640	.1570	.2900	-.0500	-.2050	-.0890	-.0990	-.1610	
135.000				.6940	.3210	-.1640	-.1000	-.0600		
150.000		-.0510	.1440	.3840	.4030	.0160	-.0170	-.0630		
165.000		-.0480		.4240	.4720	.1220	.0630	-.2310		
180.000		-.0450	-.0080	.3840						

MACH (2) = 1.252 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3400	.9090	.0000	-.2740	-.0930	-.1370			-.1330		.2160	.0760	-.0530	-.1690	-.2840
20.000			.2680	-.2790	-.1390	-.0660			-.1130		.1770				
40.000			.2590	-.2630	-.1460	-.0900			-.0770		.0470	-.0730	-.1460	-.2250	-.2590
55.000			.2320	-.2910	-.1770	.0250			.0080		-.0640				
70.000			.2110	-.3110	-.2200	.1200			.0380		-.1900	-.3880	-.3500	-.1720	-.0700
90.000		.7740	.1920	-.2850	-.1840	.1720			.0620		-.2520	-.4590	-.4080	-.1490	-.0730
120.000			.2120	-.1900	.0670	.3020			.0720		-.3060	-.5100	-.3860	-.2090	-.0750

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB40)

MACH (2) = 1.252 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5220					
150.000			.2740	-.0400	.2150	.6040			.3820		-.4790	-.3960	-.2490	-.2170	-.0880
157.000								.5520							
162.000									.2740						
165.000											-.6110	-.4010	-.2000	-.2190	-.1390
169.000									.3540						
172.000							.9400								
180.000	1.3400	.8730	.2740	.1180	.3260	.8670			.6140		-.5170	-.3830	-.2820	-.1890	-.1250

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0360							.0140		-.0930
40.000	.0490	.0350		-.1910	-.1860	-.2700	-.2200			-.2020
70.000		-.1070	.0020	.0410	.0510	-.1000	-.1590	-.1510		
90.000		-.0870	.0560	.0690	.0160	-.0940	-.1790	-.1560		
105.000				.0530	-.0810	-.1320	-.1760	-.1650		
110.000									-.2520	
120.000		-.0870	.1450	.2100	-.1560	-.3080	-.1540	-.1640	-.2110	
135.000				.7220	.2770	-.2590	-.2560	-.2340		
150.000		-.0600	.0540	.3160	.4050	.0030	-.0960	-.1730		
165.000		-.1040		.3500	.4680	.0420	-.0240	-.2900		
180.000		-.0990	.0810	.2650						

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2920	.8730	.0000	-.2660	-.0490	-.2510			-.2540		.1790	.0880	-.0430	-.1690	-.3190
20.000			.1970	-.3130	-.0920	-.2690			-.1940		.1480				
40.000			.1280	-.3510	-.2610	-.1200			-.1020		.0530	-.0950	-.2080	-.3350	-.2660
55.000			.0740	-.4070	-.3210	.0330			-.0200		-.1160				
70.000			.0360	-.4290	-.3660	.1190			.0190		-.2360	-.4300	-.3950	-.1990	-.0710
90.000		.6030	.0270	-.4040	-.3270	.1530			.0100		-.3030	-.5120	-.4350	-.1760	-.0810
120.000			.0830	-.2810	-.0830	.2100			-.0530		-.3760	-.5410	-.3930	-.2570	-.1120
142.000										-.5770					
150.000			.1800	-.0650	.1020	.4600			.2450		-.5560	-.4490	-.2710	-.2360	-.2090
157.000								.4110							
162.000									.1930						
165.000											-.6140	-.4510	-.2880	-.3320	-.2830
169.000									.3180						
172.000							.8240								

AMES 11-707 IA9 OEA - S3 - TJ ORBITER FUSELAGE

MACH (2) = 1.250 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2920	.8410	.2410	.1430	.2550	.7870			.5680		-.5350	-.3130	-.3130	-.3100	-.3330
X/LB	.5873	.6626	.7380	.7863	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.7900							.0550		-.0890					
40.000	-.0250	-.0250		-.2250	-.2400	-.2420	-.2150			-.2730					
70.000		.0280	.0420	.0570	.0830	-.0940	-.1680	-.1680							
90.000		.0010	.0860	.1100	.0160	-.1090	-.1850	-.1710							
105.000				.0820	-.1030	-.1420	-.1760	-.1880							
110.000									-.2760						
120.000		-.0080	.1390	.1660	-.2110	-.3380	-.1990	-.2110	-.2520						
135.000				.5790	.3220	-.2870	-.3120	-.3470							
150.000		-.2440	-.0020	.1770	.1950	-.0480	-.1560	-.2355							
165.000		-.1720		.2390	.3400	-.0520	-.1180	-.3250							
180.000		-.3170	-.0540	.370											

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB41) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.10[illegible] BETAT (1) = -8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2450	.8060	.0000	-.4720	-.2380	-.4210			.1010		-.0080	-.1150	-.2340	-.3380	-.3970
20.000			.3110	-.3310	-.2380	-.3950			.0130		.0080				
40.000			.5120	-.1270	-.0370	-.3010			-.1010		-.0720	-.1110	-.1330	-.1720	-.1270
55.000			.5910	.0150	.1330	.1660			.2210		.1400				
70.000			.5890	.0390	.1680	.2290			.2540		.1120	-.3180	-.2390	-.1160	-.1090
90.000		1.0930	.5230	-.0120	.2250	.2830			.2790		.0780	-.4060	-.3030	-.1410	-.1330
120.000			.3900	-.0090	.2610	.4430			.3770		-.0540	-.4730	-.3520	-.1970	-.1810
142.000										-.2960					
150.000			.2810	-.0400	.2380	.6740			.4470		-.3850	-.3430	-.3470	-.2590	-.1620
157.000								.7260							
162.000									.3470						
165.000											-.4990	-.2890	-.3240	-.2360	-.1450
169.000									.1720						
172.000							.6930								
180.000	1.2450	.7300	.0400	-.0830	.1470	.7230			.4540		-.8350	-.4640	-.5390	-.5840	-.4070

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1730							.0280		-.1060
40.000	.2880	.4260		.1500	.0280	-.4320	-.3090			-.1220
70.000		-.0330	-.1950	.0360	.1630	-.0500	-.1520	-.1500		
90.000		-.0080	-.1350	.1390	.0940	-.0650	-.1810	-.1720		
105.000				.2310	.0600	-.0720	-.2020	-.1580		
110.000									-.2780	
120.000		-.0280	.1060	.5460	.0250	-.1660	-.1160	-.0770	-.1670	
135.000				.4390	.1760	-.2700	.0290	.0160		
150.000		.0420	.1980	.2370	.0500	.0140	.1150	.0110		
165.000		.0550		.3100	.3060	.1050	.1460	-.2120		
180.000		-.0520	.1010	.2150						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OA + S3 + T9 ORBITER FUSELAGE (RBNB41)

MACH (1) = 1.099 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2790	.8600	.0000	-.5020	-.2900	-.1830			.1620		.0460	-.0580	-.1580	-.2850	-.2010
20.000			.2620	-.3890	-.2600	-.3030			.1650		.0420				
40.000			.3910	-.2470	-.1130	-.3830			.1130		-.0220	-.0910	-.1380	-.1870	-.1630
55.000			.4380	-.1740	.0370	-.1100			.2140		.0660				
70.000			.4230	-.1700	.1210	.0180			.1980		.0110	-.3700	-.2970	-.1730	-.1220
90.000		.9780	.3650	-.1910	.2120	.1260			.1820		-.0440	-.4450	-.3750	-.1690	-.1520
120.000			.2840	-.1780	.2380	.3390			.2150		-.1820	-.5130	-.3710	-.2090	-.1160
142.000										-.5790					
150.000			.2310	-.1170	.2600	.6360			.3970		-.4690	-.3850	-.3430	-.2280	-.1020
157.000								.6610							
162.000									.2930						
165.000											-.7520	-.3500	-.3420	-.2130	-.1000
169.000									.1960						
172.000							.9170								
180.000	1.2790	.7150	.0770	-.0990	.2240	.7740			.4790		-.7920	-.5200	-.4340	-.2450	-.1720

X/LB	.9873	.9626	.7380	.7869	.8293	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2020							-.0110		-.1120
40.000	.2370	.3190		-.0760	-.0200	-.4700	-.2490			-.1230
70.000		-.0320	-.1760	-.0110	.0940	-.1120	-.2090	-.1990		
90.000		.0010	-.0780	.0800	.0060	-.1240	-.2400	-.1920		
105.000				.1440	.0290	-.1250	-.2480	-.2020		
110.000									-.3200	
120.000		.0020	.1690	.4130	-.0720	-.2230	-.1610	-.1410	-.2310	
135.000				.5490	.2030	-.2540	-.0560	-.0520		
150.000		.0190	.2340	.3170	.1750	-.0900	.0030	-.0750		
165.000		.0330		.3470	.3340	.0200	.0150	-.2810		
180.000		-.0170	.1970	.3010						

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3230	.8250	.0000	-.5950	-.2650	-.1430			.1710		.0590	-.0590	-.1220	-.2280	.0590
20.000			.1150	-.5300	-.3520	-.1370			.1620		.0310				
40.000			.2230	-.4160	-.2620	-.1680			.1390		-.0290	-.1100	-.1770	-.2490	.0260
55.000			.2610	-.3630	-.2010	-.0510			.1740		-.0090				
70.000			.2500	-.3670	-.2000	.0380			.1530		-.0690	-.4440	-.3880	-.2350	-.0990
90.000		.8530	.2060	-.3470	-.1840	.1010			.1060		-.1620	-.5040	-.4600	-.2060	-.1310
120.000			.1720	-.2930	.1720	.2780			.0720		-.2760	-.5750	-.4110	-.1710	-.0750

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 OBA + S3 + T9 ORBITER FUSELAGE (RBA 41.

MACH (1) = 1.100 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6800					
150.000			.1700	-.2260	.2460	.5900			.3330		-.5660	-.3930	-.3530	-.1910	-.0680
157.000								.3620							
162.000									.2170						
165.000											-.6390	-.4590	-.3150	-.1970	-.0780
169.000									.2000						
172.000							.8990								
180.000	1.3280	.7570	.0840	-.1030	.2740	.7950			.4900		-.7820	-.6580	-.2690	-.2050	-.0780

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1980							-.0040		-.0750
40.000	.1770	.1810		-.1450	-.1470	-.3490	-.2290			-.1740
70.000		-.0240	-.1040	-.0150	.0360	-.1540	-.2510	-.2180		
90.000		.0130	.0210	.0430	-.0450	-.1660	-.2560	-.2120		
105.000				.0660	-.0740	-.1660	-.2600	-.2320		
110.000									-.3520	
120.000		.0360	.2000	.2480	-.1540	-.2580	-.2080	-.1880	-.2810	
135.000				.6130	.2140	-.2900	-.1600	-.1510		
150.000		.0520	.2570	.3760	.2800	-.1360	-.1460	-.1760		
165.000		.0470		.3910	.3510	-.0350	-.0970	-.3560		
180.000		.0500	.2230	.3370						

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2810	.8310	.0000	-.5050	-.2530	-.2170			.1790		-.0480	-.0530	-.1570	-.2500	-.1810
20.000			.1360	-.4900	-.3100	-.1640			.1750		-.0290				
40.000			.1350	-.4620	-.3270	-.1300			.1580		-.0360	-.1530	-.2560	-.2110	-.1700
55.000			.1160	-.4780	-.3460	-.1290			.1030		-.0690				
70.000			.0820	-.4940	-.3840	-.0280			-.0650		-.1690	-.4910	-.4500	-.2570	-.1790
90.000		.6840	.0470	-.4720	-.3630	.0330			-.0780		-.2560	-.5520	-.5760	-.3010	-.1880
120.000			.0470	-.3850	-.0130	.1800			-.0650		-.4940	-.6270	-.4430	-.1960	-.0790
142.00										-.7490					
150.000			.0910	-.2390	.1120	.4930			.2390		-.6020	-.4930	-.3160	-.1060	-.0880
157.000								.4280							
162.000									.1170						
165.000											-.6470	-.4730	-.3040	-.0980	-.0840
169.000									.1840						
172.000							.8370								

MACH (1) = 1.100 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2810	.7430	.0840	-.0580	.2150	.7620			.4710		-.7530	-.4830	-.4020	-.2330	-.1730
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.2130							-.0080		-.0480					
40.000	.1510	-.0090		-.1310	-.1620	-.2210	-.1910			-.2150					
70.000		.0170	.0200	.0040	.0030	-.2030	-.2870	-.2670							
90.000		.0580	.0930	.0460	-.0610	-.2030	-.2940	-.2780							
105.000				.0570	-.1340	-.2220	-.2970	-.2920							
110.000									-.3740						
125.000		.0910	.2450	.1500	-.2530	-.3410	-.2570	-.2770	-.3390						
135.000				.6890	.1760	-.3880	-.3360	-.2680							
150.000		.0950	.2700	.4830	.3220	-.1600	-.2640	-.3140							
165.000		.0550		.4430	.4080	-.1190	-.1680	-.4170							
180.000		.0040	.1890	.3000											

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2230	.8010	.0990	-.4650	-.2230	-.4170			.0800		.0100	-.1050	-.2230	-.3030	-.3640
20.000			.0770	-.5090	-.2260	-.3950			.1150		-.0310				
40.000			.0060	-.5370	-.4180	-.2070			.0960		-.1100	-.2460	-.3590	-.4320	-.0440
55.000			-.0150	-.5890	-.4850	-.1270			.0390		-.1300				
70.000			-.1130	-.6260	-.5220	-.0480			-.0950		-.2390	-.3540	-.5280	-.2780	-.0220
90.000		.5020	-.1210	-.6060	-.5070	-.0120			-.1410		-.3690	-.6200	-.5760	-.2390	-.0400
120.000			-.0930	-.4910	-.2070	.0740			-.2020		-.5810	-.7390	-.4250	-.2610	-.0780
142.000										-.8160					
150.000			-.0070	-.2760	-.0330	.3560			.1010		-.7880	-.6410	-.4270	-.3090	-.1840
157.000								.2780							
162.000									.0230						
165.000											-.8610	-.6100	-.4690	-.4210	-.2860
169.000									.1470						
172.000							.7230								
180.000	1.2230	.7050	.0410	-.0530	.1310	.6870			.4260		-.7520	-.4800	-.4570	-.5800	-.4260
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1610							.0350		-.0670					
40.000	.0950	.0590		-.2300	-.2320	-.2270	-.2210			-.2840					

MACH (1) = 1.100 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0320	.0300	.0080	.0020	-.2230	-.3140	-.3100		
90.000		.0660	.1010	.0540	-.0720	-.2400	-.3250	-.3200		
105.000				.0330	-.1880	-.2590	-.3300	-.3320		
110.000									-.4070	
120.000		.0830	.2040	.0950	-.3180	-.4070	-.3100	-.3290	-.3800	
135.000				.6870	.2290	-.4130	-.4370	-.3750		
150.000		.0490	.1710	.2350	.0090	-.2350	-.3550	-.3760		
165.000		-.0030		.3300	.3020	-.2340	-.2750	-.4570		
180.000		-.0470	.0880	.2150						

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	[illegible]	.2711	.3200	.3953	.5120
PHI															
.000	1.2800	.9240	.0000	-.2400	-.0430	-.2570			-.2980		[illegible]	.1100	-.0160	-.1710	-.3050
20.000			.4730	-.0980	-.0430	-.2530			-.2530		[illegible]				
40.000			.6720	.1060	.1460	-.2250			-.2570		[illegible]	-.0560	-.0690	-.0510	-.0430
55.000			.7460	.2340	.2770	.0330			.0690		[illegible]				
70.000			.7380	.2400	.2830	.1270			.1630		[illegible]	-.1870	-.1520	-.0380	-.0420
90.000		1.1630	.6500	.1650	.3160	.2440			.2600		[illegible]	-.2510	-.2120	-.0580	-.0680
120.000			.5030	.1130	.3380	.4570			.4360		[illegible]	-.3050	-.2390	-.1260	-.1130
142.000										-.1720					
150.000			.3820	.0420	.2990	.7140			.5420		[illegible]	-.2870	-.2370	-.1760	-.1240
157.000								.8010							
162.000									.4510						
165.000											[illegible]	-.2370	-.2120	-.1630	-.1010
169.000									.2840						
172.000							.9520								
180.000	1.2800	.7460	.1620	.0110	.1990	.7520			.5340		[illegible]	-.3790	-.3880	-.4050	-.3920

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1050							.0590		-.107[illegible]
40.000	-.0510	.4880		.1230	.1290	-.2310	-.5190			.042[illegible]
70.000		-.0980	-.1240	-.2040	.0780	-.0160	-.0820	-.0920		
90.000		-.1020	-.0870	.0940	.0010	.0100	-.1170	-.1360		
105.000				.1940	.0840	-.0160	-.1440	-.1560		
110.000									-.1750	
120.000		-.1360	-.0910	.5900	.1330	-.1290	-.1150	-.0510	-.0800	
135.000				.3640	.2040	-.2470	.0230	.0880		
150.000		-.1220	.0780	.1630	.0790	-.0090	.1520	.1050		

MACH (2) = 1.247 BETAT (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0880		.2490	.3400	.1460	.1950	-.0920		
180.000		-.2010	.0030	.1720						

MACH (2) = 1.251 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3330	.9890	.0000	-.0230	-.1460	-.1350			-.1620		-.1060	.1440	.0330	-.1270	-.2320
20.000			.4200	-.1970	-.1050	-.2060			-.1650		.0660				
40.000			.5470	-.0440	.0500	-.2110			-.2610		.0280	-.0640	.0320	-.0850	-.1110
55.000			.5770	.0260	.1290	-.0110			-.0150		-.0240				
70.000			.5620	.0170	.1280	.0920			.1040		-.0720	-.2360	-.2110	-.0910	-.0810
90.000		1.0480	.4880	-.0090	.1590	.2100			.1920		-.1020	-.3700	-.2770	-.0920	-.0890
120.000			.3960	-.0170	.2800	.4230			.3280		-.1690	-.4120	-.3010	-.1390	-.0940
142.000										-.3710					
150.000			.3330	-.0390	.2960	.7080			.5070		-.3290	-.3520	-.2890	-.1910	-.1090
157.000								.7630							
162.000									.4140						
165.000											-.5530	-.2900	-.2880	-.1760	-.1050
169.000									.3150						
172.000							.9830								
180.000	1.3330	.8160	.1880	-.0100	.2950	.8210			.5680		-.5710	-.4240	-.3440	-.2360	-.1430

X/LB	.5873	.6626	.7380	.7669	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0320							.0220		-.0880
40.000	-.0940	.3730		.0350	.0220	-.2700	-.2710			-.0100
70.000		-.1460	-.1320	-.1210	.0650	-.0470	-.1210	-.1380		
90.000		-.1160	-.0810	.0680	-.0220	-.0350	-.1500	-.1590		
105.000				.1390	.0180	-.0620	-.1710	.1620		
110.000									-.2020	
120.000		-.0970	.0280	.4310	.0480	-.1780	-.1150	-.0820	-.1270	
135.000				.4920	.2520	-.1780	-.0170	.0150		
150.000		-.0680	.1180	.2490	.1970	-.0230	.0600	.0030		
165.000		-.1770		.3030	.3570	.1100	.0900	-.1780		
180.000		-.1260	.0160	.2560						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB41)

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4120	.9640	.0000	-.3050	-.2490	-.0260			-.1460		-.1940	.1410	.0320	-.0970	-.2030
20.000			.2550	-.3700	-.2640	-.0440			-.1420		-.1660				
40.000			.3590	-.2540	-.1730	-.0540			-.1370		-.1250	-.0440	-.0260	-.1330	-.1620
55.000			.3920	-.1940	-.1160	.0510			.0030		-.1030				
70.000			.3880	-.1920	-.1260	.1300			.0920		-.1230	-.3990	-.3240	-.1540	-.0830
90.000		.9530	.3340	-.1840	-.0870	.2090			.1560		-.1950	-.4390	-.3510	-.1420	-.0840
120.000			.2700	-.1420	.0310	.3780			.2300		-.2470	-.4860	-.3840	-.1700	-.0820
142.000										-.4660					
150.000			.2690	-.1170	.1580	.6640			.4400		-.3870	-.3980	-.3210	-.2220	-.0750
157.000								.6530							
162.000									.3300						
165.000											-.6210	-.3530	-.2970	-.2290	-.0720
169.000									.3090						
172.000							.9600								
180.000	1.4120	.7860	.1750	-.0200	.1770	.8530			.5640		-.5680	-.4770	-.2460	-.2370	-.0650

X/LB	.5075	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1150							.0140		-.0750
40.000	.0180	.2380		-.1020	-.0820	-.3430	-.2450			-.0990
70.000		-.1340	-.1030	-.0650	.0300	-.0820	-.1600	-.1740		
90.000		-.1020	-.0290	.0450	-.0330	-.0980	-.1880	-.1710		
105.000				.0970	-.0320	-.1030	-.1930	-.1760		
110.000									-.2430	
120.000		-.0690	.1270	.2680	-.0350	-.2330	-.1360	-.1360	-.1970	
135.000				.5650	.2800	-.1940	-.1180	-.0930		
150.000		-.0500	.1740	.3150	.3240	-.0290	-.0580	-.1070		
165.000		-.0460		.3410	.3790	.0820	.0040	-.2580		
180.000		-.0430	.0790	.3150						

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3250	.9470	.0000	-.3060	-.0840	-.1570			-.1960		-.0140	.1160	.0030	-.1280	-.2550
20.000			.2710	-.3120	-.1270	-.1000			-.1720		-.1310				
40.000			.2760	-.2840	-.1790	-.1020			-.1170		-.1530	-.0320	-.0950	-.1890	-.2330
55.000			.2520	-.2930	-.2190	-.0110			-.0130		-.1600				
70.000			.2230	-.3120	-.2540	.0910			.0380		-.2030	-.4530	-.3520	-.2070	-.0810
90.000		.7650	.1730	-.3030	-.2170	.1640			.0700		-.2550	-.4920	-.4530	-.1750	-.0780
120.000			.1590	-.2320	-.0750	.2970			.0830		-.3270	-.5360	-.4360	-.2030	-.0700

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										-.5410					
142.000									.3450		-.5090	-.4470	-.2990	-.2720	-.0680
150.000			.1960	-.1390	.1010	.5740									
157.000								.5290							
162.000									.2350						
165.000											-.6460	-.4480	-.2550	-.2630	-.1290
169.000									.2970						
172.000							.9020								
180.000	1.3250	.7910	.1770	-.0030	.2040	.8140			.5500		-.5620	-.4240	-.3410	-.2350	-.1480

X/LB	.9873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
.000	.0930							.0230		-.0800
40.000	.0940	.0460		-.1420	-.1090	-.2450	-.3130			-.1860
70.000		-.0760	-.0780	-.0280	.0130	-.1330	-.2000	-.1390		
90.000		-.0870	-.0020	.0370	-.0460	-.1320	-.2120	-.1560		
105.000				.0350	-.0790	-.1320	-.2140	-.1700		
110.000									-.2590	
120.000		-.0710	.1160	.1760	-.1410	-.3960	-.1920	-.1630	-.2300	
135.000				.7390	.2550	-.2680	-.2560	-.1940		
150.000		-.0580	.0550	.3600	.3520	-.0480	-.1540	-.2190		
165.000		-.0870		.4370	.4530	.0030	-.1710	-.3160		
180.000		-.1390	.0150	.2520						

MACH (2) = 1.246 BETAT (5) = 8.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0030	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2600	.9160	.0000	-.2780	-.0830	-.2910			-.3300		-.0480	.0920	-.0210	-.1450	-.3080
20.000			.2070	-.3370	-.1280	-.3110			-.2750		-.0740				
40.000			.1450	-.3700	-.3090	-.1960			-.1530		-.0190	-.0810	-.2070	-.2990	-.2400
55.000			.0850	-.4220	-.3730	-.0550			-.0440		-.1990				
70.000			.0320	-.4480	-.4070	.0780			.0060		-.2490	-.4920	-.4090	-.2430	-.0740
90.000		.5900	.0010	-.4340	-.3620	.1460			.0150		-.3110	-.5440	-.4910	-.2040	-.0730
120.000			.0220	-.3330	-.1370	.2020			-.0460		-.4020	-.5790	-.4500	-.2590	-.0780
142.000										-.6070					
150.000			.0840	-.1840	.0340	.4230			.2120		-.5010	-.5020	-.3200	-.2840	-.2060
157.000								.3840							
162.000									.1490						
165.000											-.6550	-.5160	-.3300	-.3630	-.2800
169.000									.2600						
172.000							.7780								

AMES 11-7D7 IA9 C0A + S3 + T9 ORBITER FUSELAGE (RB4841)

MACH (2) = 1.246 BETAT (5) = 0.200

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2600	.7480	.1330	-.0020	.1710	.7180			.5040		-.5980	-.3890	-.3610	-.4170	-.4030
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.1140							.0560		-.1020					
40.000	.0490	-.0410		-.2070	-.2150	-.2030	-.1900			-.2680					
70.000		-.0230	-.0630	-.0050	.0390	-.1280	-.2120	-.2260							
90.000		-.0080	.0210	.0630	-.0290	-.1360	-.2270	-.2230							
105.000				.0540	-.1090	-.1660	-.2320	-.2370							
110.000									-.3010						
120.000		-.0060	.0980	.1450	-.2000	-.3780	-.2190	-.2420	-.2910						
135.000				.7450	.2810	-.2970	-.3190	-.3260							
150.000		-.1050	-.0070	.2070	.1280	-.1130	-.2340	-.2610							
165.000		-.1480		.3570	.4030	-.0550	-.1460	-.3650							
180.000		-.2130	-.0110	.1730											

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB42) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAT (1) = -8.190

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2540	.8170	.0000	-.5020	-.2820	-.3120			.0990		-.0220	-.0930	-.1800	-.2550	-.2450
20.000			.3070	-.3450	-.2750	-.2770			.0450		.0020				
40.000			.5360	-.1070	-.0510	-.1710			-.0540		-.0400	-.0790	-.0880	-.0820	.0110
55.000			.6170	.0400	.1040	.1830			.2400		.1620				
70.000			.6100	.0450	.1100	.2530			.2730		.1300	-.3070	-.2290	-.1300	-.1090
90.000		1.0930	.5090	-.0400	.1610	.3070			.3080		.0830	-.3990	-.2750	-.1610	-.1730
120.000			.3320	-.1110	.1930	.4290			.4270		-.0840	-.4760	-.4080	-.2630	-.2480
142.000										-.2790					
150.000			.1940	-.2370	.1400	.6380			.4160		-.4350	-.4040	-.4010	-.2920	-.1910
157.000								.7030							
162.000									.3110						
165.000											-.4830	-.3170	-.3720	-.2570	-.1430
169.000									.1050						
172.000							.8560								
180.000	1.2540	.6400	-.0460	-.2470	.0440	.6700			.3910		-.8630	-.5200	-.6190	-.6480	-.3100

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1960							.0490		-.0800
40.000	.3130	.4500		.2130	.0680	-.4060	-.2970			-.0930
70.000		-.0390	-.2660	-.2390	.0670	-.0850	-.1670	.0510		
90.000		-.0120	-.2270	.0440	-.0830	-.0830	-.2230	-.0330		
105.000				.1050	-.0350	-.0940	-.2550	-.1450		
110.000									-.1060	
120.000		-.0710	-.1470	.5420	.0030	-.1900	-.2310	-.1190	.0100	
135.000				.3380	.0970	-.3600	-.0810	-.0470		
150.000		-.0040	.1130	.1590	-.0170	-.1490	.0400	-.0450		
165.000		.0110		.2190	.2430	-.0220	.0580	-.2530		
180.000		-.0520	.0740	.1870						

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBM642)

MACH (1) = 1.102 BETAT (2) = -4.090

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3150	.6080	.0000	-.6050	-.3340	-.2320			.1330		.0360	-.0260	-.0850	-.1770	-.0080
20.000			.1870	-.4540	-.3410	-.2200			.1330		.0270				
40.000			.3990	-.2600	-.1510	-.2430			.1180		.0090	-.0420	-.0780	-.1080	-.0370
55.000			.4660	-.1510	-.0370	-.0890			.2480		.0980				
70.000			.4560	-.1530	-.0530	.0360			.2490		.0460	-.3410	-.2800	-.1870	-.1420
90.000		1.0000	.3710	-.1920	-.0150	.1660			.2570		-.0090	-.4290	-.3340	-.1980	-.1610
120.000			.2410	-.2220	.0320	.3590			.2990		-.1760	-.4970	-.4350	-.2520	-.1440
142.000										-.5050					
150.000			.1540	-.2840	.0900	.6280			.3780		-.4760	-.4290	-.3840	-.2380	-.1060
157.000								.6570							
162.000									.2630						
165.000											-.7270	-.3660	-.3690	-.2000	-.0960
169.000									.1360						
172.000							.9010								
180.000	1.3150	.6970	-.0200	-.2340	.0370	.7480			.4230		-.6000	-.5280	-.4560	-.2500	-.1700

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							.0010		-.0760
40.000	.2410	.3480		.1260	.0120	-.4420	-.2470			-.0970
70.000		-.0430	-.2600	-.2210	.0330	-.1400	-.2400	-.2240		
90.000		-.0040	-.2100	.0070	-.1060	-.1420	-.2810	-.2730		
105.000				.0960	-.1000	-.1550	-.3010	-.2880		
110.000									-.2920	
120.000		-.0220	-.0110	.4300	-.0840	-.2500	-.2580	-.2090	-.2620	
135.000				.4380	.1300	-.3360	-.1340	-.1160		
150.000		.0140	.1470	.2140	.0910	-.1820	-.0720	-.1360		
165.000		.0260		.2450	.2790	-.0660	-.0610	-.3180		
180.000		-.0010	.1320	.2360						

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3130	.7900	.0000	-.5710	-.1480	-.1210			.1300		.0570	-.0170	-.0800	-.1360	.0500
20.000			.0400	-.5640	-.1450	-.1460			.1280		.0410				
40.000			.2460	-.4540	-.2400	-.2130			.1390		.0000	-.0650	-.1200	-.1600	.0540
55.000			.2710	-.3570	-.2040	-.1140			.2000		.0250				
70.000			.2650	-.3570	-.2390	-.0120			.1960		-.0450	-.4140	-.3730	-.2790	-.0940
90.000		.6480	.2060	-.3480	-.2240	.0880			.1820		-.1170	-.4910	-.4290	-.2640	-.1070
120.000			.1220	-.3260	-.1310	.2830			.1690		-.2880	-.5650	-.4840	-.1990	-.0810

AMES 11-707 IA9 OZA + S3 + TS ORBITER FUSELAGE (RBM842)

MACH (1) = 1.098 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6810					
150.000			.0930	-.3260	-.0180	.5790			.3150		-.5620	-.5140	-.3950	-.1900	-.0680
157.000								.5600							
162.000									.1870						
165.000											-.8430	-.4610	-.3340	-.1960	-.0690
169.000									.1430						
172.000							.8640								
180.000	1.3130	.7190	-.0070	-.2250	-.0040	.7700			.4280		-.8060	-.6640	-.2840	-.2130	-.0680

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1600							-.0080		-.0340
40.000	.1600	.1780		[illegible]	-.0950	-.1920	-.1740			-.1370
70.000		-.0340	-.2600	[illegible]	-.0090	-.1880	-.2610	-.2640		
90.000		.0080	-.1590	-.0540	-.1250	-.1810	-.2860	-.2740		
105.000				.0020	-.1340	-.1880	-.2940	-.2930		
110.000									-.3640	
120.000		.0010	.1280	.2230	-.1520	-.3320	-.2340	-.2490	-.3070	
135.000				.4570	.1900	-.3270	-.2020	-.1970		
150.000		.0150	.1800	.3160	.2110	-.1780	-.1900	-.2350		
165.000		.0190		.3130	.2660	-.0780	-.1500	-.3600		
180.000		.0270	.1420	.2570						

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2990	.8230	.0000	-.6020	-.3280	-.1880			.1260		.0280	-.0410	-.1060	-.1820	.0220
20.000			.0180	-.6040	-.2980	-.2420			.1290		.0100				
40.000			.0720	-.5440	-.3700	-.2270			.1230		-.0300	-.1100	-.1790	-.2400	.0460
55.000			.0780	-.5160	-.3830	-.1280			.1390		-.0390				
70.000			.0710	-.5160	-.4240	-.0330			.1170		-.1230	-.4730	-.4450	-.3440	-.0630
90.000		.6960	.0360	-.5000	-.3970	.0490			.0160		-.2220	-.5470	-.4980	-.2510	-.0700
120.000			.0000	-.4370	-.2810	.2040			-.0150		-.4080	-.6300	-.5160	-.1900	-.0630
142.000										-.7720					
150.000			.0180	-.3590	-.0860	.4920			.2140		-.6930	-.6070	-.3290	-.2130	-.0750
157.000								.4270							
162.000									.0830						
165.000											-.8830	-.6130	-.2970	-.2250	-.0990
169.000									.1190						
172.000							.8240								

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB42)

MACH (1) = 1.099 BETAT (4) = 4.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2990	.6880	-.0270	-.2430	.0280	.7350			.4060		-.6040	-.5480	-.4410	-.2490	-.1860

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2010							-.0020		-.0620
40.000	.1380	-.0170		-.0470	-.1360	-.2200	-.1730			-.1910
70.000		-.0560	-.1250	-.0590	-.0340	-.2360	-.3280	-.3340		
90.000		-.0130	-.0050	-.0140	-.1120	-.2360	-.3460	-.3330		
105.000				.0040	-.1450	-.2360	-.3470	-.3480		
110.000									-.3970	
120.000		.0470	.1580	.1380	-.2290	-.3740	-.2930	-.3160	-.3690	
135.000				.6140	.1610	-.4010	-.3330	-.2960		
150.000		.0430	.2060	.4130	.2610	-.2180	-.3090	-.3350		
165.000		.0510		.3930	.3310	-.1520	-.2190	-.4230		
180.000		.0090	.1230	.2250						

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2290	.6280	.0000	-.4670	-.2430	-.2760			-.1160		.0540	-.0650	-.1790	-.2930	-.2160
20.000			.0780	-.5230	-.2550	-.2780			-.0030		.0060				
40.000			.0140	-.5510	-.4470	-.2130			.1130		-.0660	-.1900	-.3020	-.3580	-.0020
55.000			-.0220	-.5960	-.5130	-.1300			.0810		-.0720				
70.000			-.1010	-.6310	-.5610	-.0500			-.0350		-.1870	-.5210	-.4960	-.3640	.0020
90.000		.5170	-.1330	-.6210	-.5350	.0100			-.1010		-.3190	-.5870	-.5460	-.2640	.0010
120.000			-.1340	-.5290	-.3290	.1060			-.1600		-.5840	-.7000	-.4490	-.2380	-.0490
142.000										-.6280					
150.000			-.0890	-.4050	-.1020	.3540			.0840		-.6210	-.6850	-.4100	-.2740	-.1370
157.000								.2670							
162.000									-.0110						
165.000											-.6850	-.6740	-.4850	-.3500	-.2120
169.000									.0940						
172.000							.6850								
180.000	1.2290	.6140	-.0650	-.2300	.0140	.6360			.3630		-.8200	-.5470	-.6520	-.6680	-.3410

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1880							.0370		-.0760
40.000	.1120	.0810		-.1940	-.1980	-.1940	-.1940			-.2660

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.100 BETAT (5) = 8.260

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0410	-.1190	-.0610	-.0410	-.2340	-.3190	-.3030		
90.000		.0110	-.0150	-.0120	-.1110	-.2470	-.3290	-.3200		
105.000				.0040	-.1630	-.2510	-.3270	-.3420		
110.000									-.4090	
120.000		.0480	.1480	.1330	-.2750	-.4110	-.2980	-.3300	-.3930	
135.000				.6430	.2060	-.3760	-.3720	-.3350		
150.000		.0360	.1290	.2760	-.0010	-.2950	-.4190	-.4400		
165.000		.0710		.2980	.2510	-.2290	-.3240	-.4400		
180.000		-.0650	.0530	.1770						

MACH (2) = 1.245 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3280	.9890	.0000	-.2980	-.1070	-.2330			-.1780		-.1580	-.1350	-.0080	-.1080	-.2040
20.000			.4780	-.1420	-.1030	-.1800			-.1680		-.1020				
40.000			.7050	.0990	.1150	-.1270			-.1490		-.0860	-.0180	-.0900	-.0610	.0070
55.000			.7830	.2380	.2460	.0400			.2020		.1530				
70.000			.7660	.2350	.2250	.0510			.2870		.1250	-.2080	-.1810	-.0790	-.0500
90.000		1.1870	.6510	.1410	.2440	.0990			.3560		.0570	-.2760	-.2310	-.1260	-.1040
120.000			.4180	.0290	.2160	.3470			.4960		-.0690	-.3430	-.3300	-.2010	-.1760
142.000										-.1640					
150.000			.2760	-.1130	.1940	.6530			.4900		-.3370	-.3390	-.2980	-.2310	-.1840
157.000								.7660							
162.000									.3980						
165.000											-.3920	-.2480	-.2760	-.2130	-.1450
169.000									.2040						
172.000							.9140								
180.000	1.3280	.6500	.0480	-.1340	.1220	.3630			.4560		-.6630	-.4350	-.4390	-.5170	-.3740

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2230							.0090		-.0740
40.000	.1180	.4980		.2830	.1670	-.2330	-.4920			.0480
70.000		-.0660	-.2080	-.2930	-.0650	-.0720	-.1350	-.1600		
90.000		-.0750	-.1730	.0180	-.0860	-.0520	-.1650	-.1930		
105.000				.1290	.0540	-.1200	-.1850	-.2170		
110.000									-.2400	
120.000		-.1500	-.1690	.5950	.1120	-.1680	-.2070	-.1810	-.1340	
135.000				.2820	.1330	-.3170	-.1640	-.0060		
150.000		-.1060	.0600	.1130	.0250	-.1370	.0430	.0220		

AMES 11-707 IA9 OBA + S3 + T9 ORBITER FUSELAGE (RBMB42)

MACH (2) = 1.245 BETAT (1) = -8.140

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5375	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0830		.1660	.2660	.0190	.0830	-.1670		
180.000		-.1650	.0180	.1650						

MACH (2) = 1.246 BETAT (2) = -4.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3790	.9660	.0000	-.3900	-.2300	-.0530			-.1950		-.2320	.1730	.0500	-.0920	-.1610
20.000			.3720	-.2660	-.2040	-.0870			-.1070		-.1230				
40.000			.5590	-.0710	.0030	-.2220			-.0300		.0410	-.0270	.0260	-.0340	-.0460
55.000			.6160	.0290	.0870	-.0600			-.0680		.0720				
70.000			.5960	.0060	.0580	-.0020			.0640		.0360	-.2350	-.2370	-.1310	-.1080
90.000		1.0800	.4920	-.0440	.0640	.0500			.1780		-.0280	-.3120	-.2820	-.1650	-.1360
120.000			.3210	-.0950	.0840	.3540			.3390		-.2000	-.3980	-.3210	-.2020	-.1510
142.000										-.3850					
150.000			.2370	-.1730	.1110	.6630			.4590		-.3870	-.4370	-.3180	-.2300	-.1280
157.000								.7360							
162.000									.3600						
165.000											-.5860	-.3480	-.3050	-.2100	-.1050
169.000									.2340						
172.000							.9570								
180.000	1.3790	.7450	.0690	-.1350	.0410	.7540			.4890		-.6170	-.4570	-.3730	-.2750	-.2160

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							.0250		-.0930
40.000	-.0090	.3930		.0400	.1620	-.2570	-.2880			.0070
70.000		-.1460	-.1940	-.2580	-.0740	-.0920	-.1640	-.2070		
90.000		-.1270	-.1480	.0250	-.0980	-.0910	-.2010	-.2230		
105.000				.1210	-.0060	-.1350	-.2160	-.2420		
110.000									-.2450	
120.000		-.1210	-.0830	.4820	.0310	-.2230	-.2270	-.1560	-.1790	
135.000				.3910	.1710	-.2730	-.1200	-.0600		
150.000		-.0730	.1010	.1580	.1080	-.1140	-.0150	-.0630		
165.000		-.0640		.1880	.2830	.0160	.0140	-.2270		
180.000		-.0900	.0580	.2070						

MACH (2) = 1.249 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3650	.9640	.0000	-.3940	-.2410	-.0540			-.1960		-.2450	.1930	.0710	-.0540	-.1050
20.000			.2330	-.3970	-.2820	-.0820			-.1950		-.1640				
40.000			.3710	-.2720	-.2080	-.1030			-.1850		-.0830	.0600	-.0030	-.0790	-.0920
55.000			.4160	-.1840	-.1330	-.0290			-.0420		-.0270				
70.000			.4100	-.1810	-.1340	.0250			.0630		-.0930	-.3170	-.2770	-.1900	-.1260
90.000		.9550	.3350	-.1900	-.1120	.1370			.1550		-.1930	-.4180	-.3430	-.1980	-.1290
120.000			.2340	-.1790	-.0540	.3640			.2490		-.2790	-.4980	-.3850	-.1975	-.1030
142.000										-.4860					
150.000			.1910	-.2000	.0270	.6470			.4140		-.4330	-.4720	-.3760	-.2090	-.0640
157.000								.6640							
162.000									.2960						
165.000											-.6500	-.4010	-.3570	-.2200	-.0590
169.000									.2460						
175.000							.9610								
180.000	1.3650	.7760	.0880	-.1230	.0460	.8100			.4940		-.6080	-.5270	-.2950	-.2560	-.0520

X/LB	.5873	.5626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1700							.0090		-.0560
40.000	.1320	.2250		-.0350	-.0120	-.3200	-.1980			-.1190
70.000		-.1170	-.1810	-.1820	-.0850	-.1240	-.2020	-.2140		
90.000		-.0810	-.1230	-.0030	-.1250	-.1360	-.2280	-.2370		
105.000				.0470	-.0590	-.1810	-.2360	-.2460		
110.000									-.2700	
120.000		-.0700	.0750	.2590	-.0230	-.2800	-.2250	-.1760	-.2330	
135.000				.4450	.2280	-.2370	-.1570	-.1460		
150.000		-.0510	.1370	.2700	.2270	-.0900	-.1050	-.1590		
165.000		-.0480		.2740	.3000	.0170	-.0560	-.2950		
180.000		-.0450	.0900	.2530						

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3800	.9730	.0000	-.3990	-.2590	-.0250			-.1780		-.1580	.1760	.0470	-.0860	-.1700
20.000			.1890	-.4250	-.3240	-.0690			-.2200		-.2050				
40.000			.2340	-.3680	-.2930	-.0860			-.2010		-.0770	.0220	-.0390	-.1440	-.1600
55.000			.2340	-.3350	-.2900	-.0560			-.0620		-.1450				
70.000			.2060	-.3400	-.3070	.0720			.0350		-.2080	-.3850	-.3210	-.2427	-.1110
90.000		.7850	.1600	-.3390	-.2750	.1730			.1010		-.2475	-.5130	-.3780	-.2110	-.1540
120.000			.1090	-.2850	-.1830	.3210			.1320		-.3360	-.5390	-.4260	-.1670	-.0750

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBM842)

MACH (2) = 1.247 BETAT (4) = 4.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5580					
150.000			.1080	-.2440	-.0500	.5610			.3240		-.5070	-.4800	-.3600	-.2430	-.0680
157.000								.5330							
162.000									.1960						
165.000											-.6630	-.4730	-.3120	-.2850	-.0870
169.000									.2280						
172.000							.6900								
180.000	1.3800	.7230	.0620	-.1330	.0440	.7650			.4740		-.5950	-.4590	-.3680	-.2770	-.1960

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1990							.0220		-.0820
40.000	.1580	.0400		-.0580	-.0380	-.2290	-.1720			-.1700
70.000		-.0870	-.1690	-.1450	-.0720	-.1620	-.2160	-.2040		
90.000		-.0480	-.0840	-.0330	-.1390	-.1630	-.2270	-.2110		
105.000				.0140	-.1160	-.2000	-.2300	-.2280		
110.000									-.2830	
120.000		-.0360	.0960	.1990	-.1160	-.3480	-.2100	-.1950	-.2590	
135.000				.5600	.2340	-.2840	-.2230	-.2120		
150.000		-.0480	.1220	.3470	.3090	-.1020	-.1860	-.2070		
165.000		-.0640		.3500	.3570	-.0230	-.1050	-.3360		
180.000		-.1300	.0470	.2000						

MACH (2) = 1.246 BETAT (5) = 8.210

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.9710	.0000	-.3080	-.1040	-.2470			-.2110		-.1760	-.1040	.0350	-.0350	-.2090
20.000			.1980	-.3700	-.1370	-.2620			-.2320		-.2200				
40.000			.1460	-.3870	-.3320	-.2530			-.1950		-.1700	-.0710	-.1430	-.2220	-.1810
55.000			.0980	-.4290	-.3860	-.1240			-.0560		-.1010				
70.000			.0440	-.4550	-.4320	-.0200			.0020		-.2360	-.4830	-.4120	-.3680	-.1770
90.000		.8190	-.0090	-.4550	-.3960	.1270			.0330		-.2970	-.5520	-.4870	-.3980	-.2740
120.000			-.0450	-.3730	-.2780	.2230			-.0240		-.4100	-.5960	-.4930	-.3760	-.2680
142.000										-.6190					
150.000			-.0020	-.2730	-.0480	.4020			.1940		-.6290	-.5340	-.3440	-.3230	-.1220
157.000								.3760							
162.000									.1090						
165.000											-.6830	-.5510	-.3730	-.3470	-.1
169.000									.2010						
172.000							.7420								

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0050	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.6410	.0340	-.1290	.0910	.6390			.4320		-.6400	-.4310	-.4390	-.5170	-.3880

X/LB	.5873	.6526	.7385	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.3290							.0540		-.0880
40.000	.1230	-.0890		-.1590	-.1880	-.1790	-.1620			-.2570
70.000		-.0680	-.1710	-.1220	-.0380	-.1580	-.2400	-.2820		
90.000		-.0310	-.0830	-.0040	-.1180	-.1650	-.2620	-.2640		
105.000				.0450	-.1360	-.2060	-.2610	-.2830		
110.000									-.3300	
120.000		-.0140	.0970	.2010	-.1620	-.3970	-.2610	-.2580	-.3250	
135.000				.6370	.2840	-.2900	-.2740	-.3210		
150.000		-.0450	.0670	.2460	.0540	-.2350	-.3050	-.3550		
165.000		-.0310		.3080	.2980	-.1080	-.2000	-.3870		
180.000		-.1690	.0010	.1690						

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB43) (04 AUG 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

MACH (1) = 1.101 BETAY (1) = -8.160

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2520	.7790	.0000	-.5690	-.3170	-.1330			-.1120		-.0010	-.0230	-.1150	-.1620	-.1140
20.000			.2820	-.3800	-.3030	-.1110			-.0230		-.0910				
40.000			.5570	-.0970	-.0250	-.2170			.0550		-.0780	.0200	-.0070	-.0240	.1230
55.000			.6550	.0520	.1290	.0950			.2580		.1560				
70.000			.6300	.0530	.0930	.1760			.2740		.1260	-.3050	-.2090	-.1180	-.0850
90.000		1.1060	.5080	-.0460	.1180	.2510			.3110		.0730	-.4060	-.2430	-.2000	-.1930
120.000			.2800	-.1600	.0610	.3800			.4540		-.1230	-.4960	-.4940	-.3120	-.3170
142.000										-.2750					
150.000			.1160	-.3190	.0450	.6040			.3800		-.4960	-.4680	-.4420	-.3120	-.1810
157.000								.6840							
162.000									.2780						
165.000											-.4740	-.3460	-.4120	-.2680	-.1500
169.000									.0520						
172.000							.8540								
180.000	1.2520	.5850	-.1200	-.3430	-.0550	.6200			.3330		-.8980	-.5830	-.7840	-.6240	-.2370

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1930							.0430		-.0690
40.000	.3160	.4370		.2290	.0660	-.4020	-.3040			-.0900
70.000		-.0880	-.3270	-.4210	-.0030	-.0140	-.1510	-.0350		
90.000		-.0720	-.2850	-.0250	-.1880	.0030	-.1590	-.0870		
105.000				.0250	-.0690	-.0070	-.1660	-.1320		
110.000									-.1640	
120.000		-.1500	-.2490	.5220	-.0140	-.1650	-.1840	.0840	-.0370	
135.000				.2300	.0270	-.4430	-.1760	.0180		
150.000		-.0250	.0380	.1030	-.0640	-.2450	-.0410	-.0420		
165.000		-.0160		.1580	.1600	-.0270	-.0660	-.2930		
180.000		-.0100	.0370	.1530						

MACH (1) = 1.097 BETAT (2) = -4.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3080	.7320	.0000	-.4640	-.1400	-.1370			.0490		.0370	-.0010	-.0520	-.0980	.0430
20.000			.0620	-.5080	-.1610	-.1370			.0510		.0240				
40.000			.3650	-.3020	-.1650	-.1190			.0900		.0200	-.0050	-.0310	-.0520	.0900
55.000			.4790	-.1390	-.0480	.0430			.2220		.1090				
70.000			.4790	-.1400	-.0790	.1610			.2390		.0660	-.3390	-.2860	-.1930	-.1600
90.000		1.0070	.3730	-.1930	-.0740	.2350			.2680		-.0020	-.4400	-.3270	-.2580	-.2180
120.000			.2000	-.2580	-.0720	.3690			.3530		-.1960	-.5180	-.5000	-.3180	-.1940
142.000										-.4180					
150.000			.0890	-.3600	-.0500	.6150			.3590		-.5210	-.5310	-.4400	-.2470	-.1130
157.000								.6630							
162.000									.2440						
165.000											-.6920	-.3970	-.4140	-.2080	-.1070
169.000									.0890						
172.000							.8790								
180.000	1.3033	.6250	-.0950	-.3150	-.1300	.6950			.3740		-.8490	-.5840	-.4380	-.2870	-.1340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							.0170		-.0950
40.000	.2430	.3470		.1550	.0150	-.4420	-.2030			-.1060
70.000		-.0740	-.3190	-.3660	-.1150	-.0590	-.1390	-.0340		
90.000		-.1540	-.2800	-.0500	-.2210	-.0700	-.1480	-.0700		
105.000				.0320	-.1260	-.1720	-.1840	-.1220		
110.000									-.2000	
120.000		-.0810	-.1440	.4280	-.0860	-.3490	-.1510	-.0510	-.0790	
135.000				.3440	.0630	-.3910	-.2240	-.0270		
150.000		-.0010	.0900	.1750	.0220	-.2540	-.1570	-.1460		
165.000		.0070		.2060	.1950	-.1600	-.1540	-.3420		
180.000		.0340	.0750	.1940						

MACH (1) = 1.101 BETAT = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3250	.7370	.0000	-.4190	-.1440	-.0290			.0890		.0620	.0200	-.0220	-.0530	.0680
20.000			-.0360	-.4570	-.0740	-.0670			.0920		.0460				
40.000			.2030	-.4420	-.1090	-.1170			.1290		.0200	-.0220	-.0600	-.0850	.0590
55.000			.2910	-.3280	-.1770	-.0940			.2040		.0560				
70.000			.2890	-.3260	-.2310	.0260			.2160		-.0040	-.3940	-.3660	-.2770	-.0860
90.000		.8580	.2080	-.3490	-.2390	.1470			.2240		-.0790	-.4900	-.4160	-.3140	-.1090
120.000			.0860	-.3610	-.2020	.3140			.2300		-.2830	-.5660	-.5100	-.2400	-.0740

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBM843)

MACH (1) = 1.101 BETAT (3) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6610					
150.000			.0310	-.3890	-.1190	.5740			.3060		-.5760	-.5640	-.4340	-.1850	-.0460
157.000								.5700							
162.000									.1700						
165.000											-.6580	-.4790	-.3510	-.1780	-.0410
169.000									.1040						
172.000							.8670								
180.000	1.3250	.6490	-.3900	-.3050	-.1110	.7370			.3820		-.6390	-.6140	-.3090	-.1960	-.0400

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1900							.0020		-.0340
40.000	.1670	.2000		.0560	-.0630	-.1760	-.1410			-.1220
70.000		-.1040	-.3260	-.3080	-.1570	-.2250	-.3020	.0050		
90.000		-.0720	-.2540	-.0910	-.2290	-.2000	-.3400	.0110		
105.000				-.0110	-.1720	-.2860	-.3460	-.1320		
110.000									-.1740	
120.000		-.0320	.0380	.2610	-.1670	-.3980	-.2680	-.2930	-.0580	
135.000				.3630	.1030	-.3440	-.2660	-.2410		
150.000		.0110	.1070	.2400	.1440	-.2180	-.2330	-.2890		
165.000		.0290		.2360	.2340	-.1230	-.1550	-.3900		
180.000		.0400	.0650	.1920						

MACH (1) = 1.099 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2820	.7690	.0000	-.4890	-.2000	-.1780			.0960		.0970	.0020	-.0540	-.0840	.0330
20.000			-.0780	-.4880	-.1700	-.1930			.0930		.0270				
40.000			.0290	-.5460	-.1030	-.2010			.1140		.0000	-.0700	-.1270	-.1650	.0190
55.000			.0830	-.5120	-.3090	-.1910			.1630		.0000				
70.000			.0770	-.5120	-.4040	-.0890			.1690		-.0690	-.4490	-.4350	-.3570	-.0430
90.000		.6930	.0320	-.5020	-.4070	.0170			.1440		-.1620	-.5400	-.4780	-.3290	-.0470
120.000			-.0360	-.4570	-.3390	.2040			.0390		-.3800	-.6200	-.5470	-.2050	-.0330
142.000										-.7660					
150.000			-.0360	-.4310	-.1990	.4850			.2040		-.6880	-.6100	-.5400	-.1890	-.0420
157.000								.4370							
162.000									.0610						
165.000											-.9030	-.5880	-.3120	-.1970	-.0560
169.000									.0860						
172.000							.8070								

MACH (1) = 1.099 BETAT (4) = 4.150

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2820	.6340	-.0960	-.3130	-.1180	.6920			.3620		-.8380	-.5810	-.4180	-.2560	-.1340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1910							-.0070		-.0500
40.000	.1240	.0150		-.0130	-.1150	-.1930	-.1370			-.1800
70.000		-.0970	-.2460	-.1640	-.0910	-.2610	-.3450	-.2680		
90.000		-.0370	-.1220	-.0910	-.1600	-.2510	-.3640	-.3680		
105.000				-.0380	-.1790	-.2510	-.3670	-.3850		
110.000									-.4080	
125.000		.0210	.0640	.0870	-.2210	-.3780	-.3130	-.3480	-.4050	
135.000				.5130	.1580	-.4000	-.3260	-.3180		
150.000		.0530	.1260	.3940	.2070	-.2370	-.3240	-.3590		
165.000		.0640		.3530	.2970	-.1610	-.2410	-.4220		
180.000		.0420	.0750	.1920						

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2320	.7690	.0090	-.5650	-.2840	-.1320			-.1100		.0230	-.0210	-.0970	-.1180	-.0120
20.000			-.0600	-.6390	-.1970	-.2050			-.1470		.0010				
40.000			-.0980	-.6390	-.3150	-.2600			.0890		-.0750	-.1640	-.2490	-.2730	.0230
55.000			-.0950	-.6470	-.5120	-.1610			.0850		-.0600				
70.000			-.1360	-.6510	-.5810	-.0440			.0680		-.1400	-.4970	-.4910	-.4170	.0030
90.000		.4910	-.1650	-.6380	-.5630	.0400			-.0110		-.2520	-.5830	-.5360	-.2910	.0180
120.000			-.1740	-.5580	-.4610	.1600			-.1070		-.4840	-.6770	-.5420	-.2300	.0420
142.000										-.8270					
150.000			-.1580	-.4700	-.2350	.3600			.0850		-.8320	-.6850	-.3910	-.2590	-.0200
157.000								.2890							
162.000									-.0300						
165.000											-.8970	-.6830	-.4320	-.3050	-.0910
179.000									.0560						
172.000							.6780								
180.000	1.2320	.5450	-.1310	-.3320	-.0600	.5930			.3130		-.8550	-.5920	-.8130	-.6820	-.2320

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1790							.0330		-.0610
40.000	.0940	.0050		-.1680	-.1150	-.1710	-.1590			-.2080

MACH (1) = 1.099 BETAT (5) = 8.300

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0930	-.2600	-.1600	-.0850	-.2480	-.3300	-.3640		
90.000		-.0360	-.1640	-.0840	-.1750	-.2400	-.3550	-.3580		
105.000				-.0310	-.2300	-.2420	-.3550	-.3700		
110.000									-.4190	
120.000		.0200	-.0100	.1220	-.2560	-.4370	-.3180	-.3490	-.4130	
135.000				.5920	.1710	-.4010	-.3560	-.3410		
150.000		.0300	.0460	.2500	.0220	-.3090	-.4110	-.4300		
165.000		.0450		.2850	.2530	-.2930	-.3180	-.4510		
180.000		-.0100	.0230	.1480						

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3150	.9740	.0000	-.3570	-.2120	-.1380			-.1510		-.2040	-.1540	-.1570	.0310	-.1230
20.000			.4730	-.1810	-.1750	-.1490			-.1430		-.1090				
40.000			.7190	.0890	.0890	-.1000			-.2070		.0270	.0460	-.0950	.0090	.0840
55.000			.7930	.2350	.2220	.1000			.0270		.1570				
70.000			.7650	.2310	.1860	.1100			.1640		.1430	-.1940	-.1780	-.0690	-.0800
90.000		1.1820	.6250	.1190	.1890	.1140			.3070		.0780	-.2760	-.2430	-.1470	-.1330
120.000			.3800	-.0260	.1160	.1250			.4900		-.1050	-.3770	-.3860	-.2500	-.2560
142.000										-.1670					
150.000			.2070	-.1910	.0290	.5880			.4790		-.4130	-.3920	-.3300	-.2750	-.2020
157.000								.8010							
162.000									.3820						
165.000											-.4010	-.2780	-.3070	-.2400	-.1520
169.000									.1660						
172.000							.9060								
180.000	1.3150	.6270	-.0260	-.2300	-.0520	.5110			.3990		-.6930	-.5190	-.5820	-.5580	-.2710

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2120							.0690		-.0570
40.000	.3040	.4580		.3070	.1660	-.2400	-.4120			.0300
70.000		-.0790	-.2640	-.3520	-.1380	-.1300	-.1810	-.0460		
90.000		-.0900	-.2460	-.0530	-.1740	-.1410	-.1990	-.1370		
105.000				.0540	.0350	-.1410	-.2520	-.2710		
110.000									-.1710	
120.000		-.1970	-.2360	.5820	.0890	-.2010	-.2500	-.2580	-.0810	
135.000				.2000	.0720	-.3680	-.2510	-.1090		
150.000		-.0670	.0190	.1140	-.0085	-.1840	-.0500	-.0730		

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB43)

MACH (2) = 1.245 BETAT (1) = -8.110

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0560		.1420	.1700	-.0540	-.0250	-.2350		
180.000		-.0630	.0260	.1550						

MACH (2) = 1.249 BETAT (2) = -4.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3740	.9860	.0000	-.4160	-.2810	-.0370			-.1510		-.2570	.1700	.1110	-.0310	-.0920
20.000			.3750	-.2910	-.2690	-.0230			-.1330		-.1780				
40.000			.5830	-.0550	-.0270	-.0030			-.1160		.0140	-.0280	.1040	.0230	.0190
55.000			.6460	.0500	.0770	-.0160			-.0120		.0470				
70.000			.6150	.0290	.0310	-.0070			.1350		-.0040	-.2390	-.2270	-.1180	-.1350
90.000		1.0680	.4920	-.0440	.0440	.0160			.2410		-.0430	-.3130	-.3180	-.1830	-.1820
120.000			.2920	-.1270	.0100	.2030			.3420		-.1870	-.4290	-.3880	-.2530	-.2170
142.000										-.3510					
150.000			.1810	-.2270	-.0200	.6120			.4540		-.4200	-.4780	-.3680	-.2550	-.1220
157.000								.7870							
162.000									.3480						
165.000											-.6040	-.3640	-.3570	-.2390	-.1060
169.000									.2050						
172.000							.9450								
180.000	1.3740	.6920	-.0040	-.2040	-.0680	.6310			.4530		-.6560	-.4730	-.4140	-.3370	-.1930

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2260							.0430		-.0720
40.000	.2480	.3770		.2280	.1070	-.2760	-.1900			-.0513
70.000		-.1310	-.2490	-.3330	-.1390	-.1410	-.2080	-.2420		
90.000		-.1120	-.2010	-.0370	-.1670	-.1810	-.2370	-.2610		
105.000				.0680	-.0230	-.1800	-.2760	-.2770		
110.000									-.2840	
120.000		-.1040	-.1370	.4770	.0310	-.2470	-.2660	-.2440	-.2250	
135.000				.3040	.1270	-.3190	-.1880	-.1270		
150.000		-.0390	.0700	.1420	.0630	-.1650	-.0810	-.1180		
165.000		-.0580		.1780	.2110	-.0560	-.0630	-.2670		
180.000		-.0550	.0470	.1810						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBM843)

MACH (2) = 1.246 BETAT (3) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3830	.9260	.0000	-.2320	-.2390	-.0320			-.1430		-.2400	.1740	.0790	.0090	-.0170
20.000			.1410	-.2940	-.2020	-.0680			-.1520		-.2080				
40.000			.3330	-.3000	-.1390	-.0940			-.1460		-.1790	.0970	.0260	-.0190	-.0120
55.000			.4150	-.1800	-.1120	-.0700			-.0830		-.0810				
70.000			.4100	-.1750	-.1400	-.0420			.0680		-.0720	-.2750	-.2410	-.1990	-.1780
90.000		.9420	.3250	-.2030	-.1270	-.0100			.1480		-.1300	-.4490	-.2860	-.2370	-.1810
120.000			.1890	-.2160	-.1020	.2980			.2020		-.2720	-.4890	-.4370	-.2470	-.1320
142.000										-.4900					
150.000			.1300	-.2530	-.0670	.5970			.4020		-.4680	-.5250	-.4060	-.1950	-.0640
157.000								.6890							
162.000									.2790						
165.000											-.6810	-.4470	-.3880	-.1900	-.0550
169.000									.2180						
172.000							.9590								
180.000	1.3830	.7140	.0100	-.1880	-.0480	.7230			.4610		-.6440	-.5700	-.3280	-.2650	-.0480

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1850							.0140		-.0360
40.000	.1470	.2330		.1100	.0220	-.3320	-.1510			-.1120
70.000		-.1340	-.2300	-.2750	-.1670	-.1490	-.2220	-.2820		
90.000		-.0780	-.1720	-.0530	-.1600	-.2240	-.2630	-.2780		
105.000				.0260	-.0800	-.2230	-.2920	-.2680		
110.000									-.3000	
120.000		-.0570	.0680	.2710	-.0300	-.3030	-.2700	-.2400	-.2610	
135.000				.3260	.1800	-.2610	-.1870	-.1780		
150.000		-.0360	.1210	.2290	.1800	-.1260	-.1420	-.1990		
165.000		-.0330		.2330	.2280	-.0110	-.0790	-.3020		
180.000		-.0310	.0920	.1960						

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3660	.9600	.0000	-.3670	-.2600	-.0350			-.1500		-.2380	.1760	.0970	-.0280	-.0870
20.000			.1190	-.3730	-.2480	-.0640			-.1630		-.2680				
40.000			.1890	-.4040	-.2190	-.1060			-.1780		-.1430	.0530	-.0160	-.0860	-.0930
55.000			.2150	-.3540	-.2720	-.1060			-.0970		-.1280				
70.000			.1970	-.3470	-.3130	-.0490			.0090		-.1530	-.3410	-.3040	-.2550	-.1670
90.000		.7890	.1400	-.3530	-.2970	.0360			.0910		-.2150	-.5030	-.3490	-.2670	-.1480
120.000			.0630	-.3230	-.2250	.3050			.1030		-.3540	-.5530	-.4920	-.1770	-.0960

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB43)

MACH (2) = 1.245 BETAT (4) = 4.130

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5610					
150.000			.0400	-.3000	-.1300	.5320			.3210		-.5400	-.5490	-.3930	-.1950	-.0580
157.000								.5800							
162.000									.1820						
165.000											-.7000	-.5210	-.3460	-.2410	-.0650
169.000									.2000						
172.000							.9020								
180.000	1.3660	.6960	-.0090	-.2070	-.0620	.6750			.4340		-.6450	-.4980	-.4060	-.3100	-.1970

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2240							.0200		-.0680
40.000	.1310	.0250		.0690	-.0810	-.1950	-.1340			-.1630
70.000		-.1210	-.2300	-.2160	-.1310	-.1830	-.2200	-.2500		
90.000		-.0590	-.1520	-.0660	-.2030	-.2040	-.2340	-.2460		
105.000				-.0240	-.1380	-.2230	-.2390	-.2640		
110.000									-.3130	
120.000		-.0260	.0140	.1160	-.1060	-.3390	-.2570	-.2260	-.2850	
135.000				.5430	.2240	-.2790	-.2220	-.2350		
150.000		-.0160	.0880	.3290	.2670	-.1300	-.1900	-.2340		
165.000		-.0290		.3350	.3240	-.0400	-.1130	-.3450		
180.000		-.0620	.0460	.1840						

MACH (2) = 1.246 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.9220	.0000	-.3970	-.2870	-.1080			-.1490		-.1890	-.1260	.0200	.0040	-.1260
20.000			.0670	-.4950	-.3460	-.0670			-.2080		-.2710				
40.000			.0320	-.5030	-.4290	-.1870			-.2460		-.1750	.0120	-.1510	-.1590	.0160
55.000			.0160	-.5040	-.4620	-.1500			-.0970		-.1470				
70.000			-.0140	-.5040	-.4750	-.0430			-.0040		-.2090	-.4330	-.3600	-.3130	-.0260
90.000		.5720	-.0570	-.4880	-.4500	.1120			.0480		-.2840	-.5480	-.4080	-.2500	-.0210
120.000			-.0890	-.4210	-.3530	.2480			-.0290		-.4100	-.6040	-.5350	-.1740	-.0220
142.000										-.6220					
150.000			-.0700	-.3510	-.2140	.3240			.2030		-.6500	-.5660	-.3760	-.2890	-.0650
157.000								.4570							
162.000									.1000						
165.000											-.7050	-.5770	-.3810	-.3880	-.1340
169.000									.1690						
172.000							.7950								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB43)

MACH (2) = 1.246 BETAT (5) = 8.250

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3100	.6050	-.0480	-.2400	-.0740	.4940			.3850		-.6820	-.4850	-.3710	-.3650	-.2810

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.2140							.0900		-.0500
40.000	.1120	-.1340		-.1380	-.1590	-.1610	-.1400			-.1980
70.000		-.1050	-.2220	-.1760	-.0980	-.1930	-.2650	-.3330		
90.000		-.0440	-.1440	-.0510	-.1990	-.2150	-.2790	-.3120		
105.000				-.0230	-.1650	-.2510	-.2970	-.3240		
110.000									-.3420	
120.000		-.0090	-.0470	.2530	-.1330	-.4000	-.3200	-.2810	-.3280	
135.000				.6190	.2450	-.3190	-.2680	-.3130		
150.000		-.0290	.0020	.2490	.1000	-.2240	-.2770	-.3240		
165.000		-.0220		.2880	.3160	-.1400	-.1990	-.3900		
180.000		-.0760	.0130	.1500						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB44) (07 AUG 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = -1.200
RUDDER = .000 ELEVON = .000
RUDFLR = .000

MACH (1) = .600 ALPHAT(1) = -8.050

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0070	.4160	.0000	-.6400	-.2080	-.1220			-.1220		-.1460	-.1150	-.0760	-.0420	-.0370
20.000			-.4170	-.6890	-.2110	-.1230			-.1200		-.1490				
40.000			-.3460	-.5740	-.1870	-.1580			-.1590		-.2210	-.1680	-.0930	-.0620	-.0360
55.000			-.3020	-.5060	-.1220	-.1030			-.1260		-.1720				
70.000			-.2450	-.4280	-.1160	-.0800			-.1190		-.1990	-.3800	-.0660	.0330	.0710
90.000		.4910	-.1870	-.3720	-.0820	-.1080			-.1650		-.2110	-.4010	-.0880	.0030	.0440
120.000			.0100	-.1290	.0340	-.0250			-.2890		-.2060	-.2560	-.0840	-.0240	.0290
142.000										-.4020					
150.000			.1760	.1000	.2230	.3320			-.0870		-.3250	-.1350	-.0570	-.0090	.0340
157.000								.2340							
162.000									-.1450						
165.000											-.3160	-.1050	-.0380	-.0010	.0340
169.000									-.0710						
172.000							.6720								
180.000	1.0070	.7080	.1780	.1930	.2940	.6070			.3110		-.4130	-.0940	-.0780	-.0040	.0430

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0260							-.0570		.0810
40.000	-.0560	-.1950		-.3220	-.2990	-.1650	-.1260			-.1640
70.000		.0090	-.0570	-.0710	-.0080	-.0460	-.0440	-.0850		
90.000		.0380	.0050	-.0540	-.0550	-.0850	-.0890	-.1120		
105.000				-.0890	-.1460	-.0910	-.1160	-.1460		
110.000									-.2700	
120.000		.0370	.1340	-.0890	-.4790	-.2060	-.1320	-.1490	-.2030	
135.000				.4750	-.0230	-.2500	-.1740	-.1940		
150.000		.0670	.1890	.4130	.1420	-.1450	-.1540	-.2230		
165.000		.0690		.3010	.2630	-.0950	-.1670	-.2790		
180.000		.0710	.1570	.2100						

AMES 11-707 IA9 OEA + 33 + T9 ORBITER FUSELAGE (RBMB44)

MACH (1) = .600 ALPHAT(2) = -5.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0680	.4230	.0000	-.6630	-.2030	-.1250			-.1380		-.1450	-.1160	-.0750	-.0320	-.0300
20.000			-.4020	-.6810	-.2040	-.1340			-.1360		-.1550				
40.000			-.3210	-.5740	-.1760	-.1580			-.1680		-.2160	-.1680	-.0870	-.0800	-.0280
55.000			-.2700	-.5030	-.1350	-.0980			-.1270		-.1700				
70.000			-.2440	-.4280	-.1260	-.0760			-.1270		-.1980	-.3950	-.0750	.0150	.0340
90.000		.5070	-.1950	-.3720	-.0820	-.0950			-.1600		-.2180	-.4140	-.0850	-.0110	.0280
120.000			-.0180	-.1410	.0270	-.0100			-.2740		-.2270	-.2640	-.0960	-.0290	.0190
142.000										-.4240					
150.000			.1280	.0690	.1880	.3240			-.1210		-.3710	-.1520	-.0710	-.0200	.0150
157.000								.2210							
162.000									-.1960						
165.000											-.3580	-.1200	-.0610	-.0170	.0150
169.000									-.1310						
172.000							.6540								
180.000	1.0680	.6750	.1220	.1620	.2560	.5890			.2620		-.4570	-.1110	-.1000	-.0190	.0170

X/LB	.5873	6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0130							-.0790		.0620
40.000	-.0360	-.1650		-.3250	-.3120	-.1820	-.1050			-.1630
70.000		-.0210	-.0720	-.0960	-.0190	-.0600	-.0460	-.0930		
90.000		.0010	-.0130	-.0700	-.0640	-.0980	-.0940	-.1230		
105.000				-.0940	-.1510	-.1050	-.1190	-.1510		
110.000									-.2680	
120.000			.0190	.1250	-.0760	-.4550	-.2140	-.1310	-.1470	-.2040
135.000					.4610	-.0290	-.2480	-.1670	-.1950	
150.000			.0510	.1780	.3710	.1110	-.1620	-.1620	-.2280	
165.000			.0530		.2730	.2380	-.1240	-.1790	-.2840	
180.000			.0570	.1430	.1850					

MACH (1) = .598 ALPHAT(3) = -3.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0420	.4490	.0000	-.6340	-.2050	-.1300			-.1390		-.1420	-.1240	-.0890	-.0440	-.0140
20.000			-.3810	-.6770	-.2080	-.1350			-.1340		-.1560				
40.000			-.3000	-.5680	-.1780	-.1510			-.1610		-.2130	-.1710	-.0910	-.0510	-.0140
55.000			-.2530	-.4990	-.1250	-.0910			-.1210		-.1660				
70.000			-.2340	-.4290	-.1260	-.0720			-.1200		-.1930	-.4080	-.0910	.0050	.0350
90.000		.9100	-.2050	-.3800	-.0790	-.0860			-.1500		-.2200	-.4250	-.0930	-.0160	.0100
120.000			-.0550	-.1660	.0210	-.0020			-.2520		-.2480	-.2720	-.0960	-.0280	.0080

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (1) = .598 ALPHAT(3) = -3.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4470					
150.000			.0680	.0240	.1620	.3100			-.1460		-.4110	-.1680	-.0820	-.0270	.0080
157.000								.2070							
162.000									-.2380						
165.000											-.3980	-.1590	-.0740	-.0230	.0010
169.000									-.1860						
172.000							.6330								
180.000	1.0420	.6280	.0530	.1100	.2210	.5660			.2210		-.4820	-.1290	-.1130	-.0310	.0070

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0030							-.0760		.0240
40.000	-.0080	-.1330		-.2970	-.3050	-.1720	-.1010			-.1460
70.000		-.0500	-.0900	-.1080	-.0250	-.0610	-.0430	-.0880		
90.000		-.0320	-.0320	-.0810	-.0690	-.1050	-.0940	-.1210		
105.000				-.0890	-.1430	-.1030	-.1200	-.1550		
110.000									-.2590	
120.000		.2080	.1150	-.0500	-.4340	-.2060	-.1240	-.1430	-.1930	
135.000				.4460	-.0350	-.2420	-.1590	-.1860		
150.000		.0350	.1620	.3380	.0830	-.1790	-.1750	-.2280		
165.000		.0350		.2540	.2070	-.1400	-.1880	-.2810		
180.000		.0350	.1310	.1650						

MACH (1) = .599 ALPHAT(4) = -1.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0810	.4570	.0000	-.6440	-.2040	-.1260			-.1350		-.1510	-.1180	-.0770	-.0460	-.0120
20.000			-.3560	-.6690	-.2120	-.1330			-.1320		-.1570				
40.000			-.2790	-.5620	-.1820	-.1450			-.1550		-.2130	-.1600	-.0830	-.0500	-.0090
55.000			-.2330	-.4910	-.1290	-.0860			-.1140		-.1670				
70.000			-.2250	-.4320	-.1240	-.0700			-.1160		-.1970	-.4120	-.0930	-.0110	.0160
90.000		.5170	-.2090	-.3870	-.0760	-.0760			-.1400		-.2170	-.4400	-.0990	-.0260	-.0040
120.000			-.0910	-.1920	.0140	.0030			-.2230		-.2600	-.2860	-.1020	-.0390	-.0030
142.000										-.4740					
150.000			.0110	-.0220	.1330	.2990			-.1710		-.4470	-.1820	-.0930	-.0400	-.0100
157.000								.1890							
162.000									-.2810						
165.000											-.4240	-.1550	-.0890	-.0430	-.0110
169.000									-.2510						
172.000							.6090								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (1) = .599 ALPHAT(4) = -1.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.80.000	1.0810	.5780	-.0130	.0570	.1860	.5450			.1690		-.5090	-.1470	-.1230	-.0500	-.0110
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0140							-.0740		.0130					
40.000	-.0030	-.1030		-.2810	-.2890	-.1660	-.0910			-.1590					
70.000		-.0880	-.1310	-.1270	-.0340	-.0660	-.0500	-.0890							
90.000		-.0510	-.0570	-.0930	-.0770	-.1100	-.1000	-.1200							
105.000				-.0910	-.1540	-.1100	-.1270	-.1550							
110.000									-.2560						
120.000		-.0130	.1010	-.0240	-.4150	-.2120	-.1270	-.1370	-.1950						
135.000				.4270	-.0450	-.2140	-.1610	-.1840							
150.000		.0200	.1480	.3000	.0550	-.1950	-.1850	-.2390							
165.000		.0170		.2280	.1760	-.1560	-.2040	-.2790							
190.000		.0170	.1020	.1420											

MACH (1) = .600 ALPHAT(5) = .060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0700	.4970	.0000	-.6130	-.1350	.0430			-.1260		-.1460	-.1200	-.0810	-.0410	.0020
20.000			-.3290	-.6270	-.1370	-.0440			-.1260		-.1520				
40.000			-.2480	-.5040	-.1090	-.0560			-.1440		-.2040	-.1730	-.0870	-.0380	.0040
55.000			-.2100	-.4400	-.0360	.0050			-.1070		-.1600				
70.000			-.1450	-.3840	-.0410	.0210			-.1140		-.1950	-.4290	-.1150	-.0340	-.0070
90.000		.5160	-.1560	-.3420	.0140	.0200			-.1300		-.2200	-.4490	-.1140	-.0350	-.0050
120.000			-.0580	-.1570	.0990	.1030			-.2110		-.2930	-.3960	-.1070	-.0440	-.0170
142.000										-.5020					
150.000			.0240	.0030	.2030	.4030			-.2000		-.4870	-.2010	-.1040	-.0470	-.0190
157.000								.2750							
162.000									-.3280						
165.000											-.4600	-.1800	-.0950	-.0470	-.0190
169.000									-.3090						
172.000							.7270								
180.000	1.0700	.5270	-.0180	.0850	.2500	.6550			.1240		-.5440	-.1690	-.1040	-.0570	-.0220
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0290							-.0750		.0100					
40.000	.0110	-.0780		-.2490	-.2770	-.1460	-.0840			-.1490					

MACH (1) = .600 ALPHAT(5) = .060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1280	-.1600	-.1430	-.0420	-.0690	-.0550	-.0840		
90.000		-.0820	-.0760	-.1000	-.0890	-.1130	-.1050	-.1210		
105.000				-.0920	-.1490	-.1170	-.1270	-.1570		
110.000									-.2530	
120.000		-.0340	.0840	-.0030	-.3940	-.2130	-.1260	-.1350	-.1900	
135.000				.4100	-.0580	-.2410	-.1600	-.1830		
150.000		-.0060	.1280	.2540	.0200	-.2160	-.1930	-.2460		
165.000		-.0030		.2080	.1470	-.1720	-.2170	-.2790		
180.000		-.0030	.0840	.1190						

MACH (1) = .600 ALPHAT(6) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1508	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0510	.5070	.0000	-.6100	-.1210	-.1110			-.1170		-.1280	-.1070	-.0630	-.0280	.0140
20.000			-.3050	-.5930	-.1170	-.1120			-.1120		-.1370				
40.000			-.2170	-.4740	-.0890	-.1160			-.1260		-.1850	-.1460	-.0660	-.0330	.0150
55.000			-.1830	-.4130	-.1090	-.0630			-.0930		-.1460				
70.000			-.1250	-.3650	-.1160	-.0540			-.1030		-.1900	-.4260	-.1180	-.0410	-.0220
90.000		.5240	-.1450	-.3390	-.0640	-.0460			-.1200		-.2140	-.4650	-.1120	-.0460	-.0430
125.000			-.0910	-.1660	.0030	.0250			-.1850		-.3030	-.3080	-.1160	-.0490	-.0300
142.300										-.5070					
150.000			-.0280	-.0260	.0870	.2870			-.2220		-.5120	-.2040	-.1080	-.0530	-.0320
157.000								.1610							
162.000									-.3640						
165.000											-.4720	-.1790	-.1030	-.0530	-.0330
169.000									-.3550						
172.000							.5720								
180.000	1.0510	.5210	-.0570	.0440	.1160	.5070			.0800		-.5530	-.1660	-.1360	-.0600	-.0320

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0440							-.0720		-.0120
40.000	.0280	-.0500		-.2370	-.2620	-.1470	-.0750			-.1500
70.000		-.1670	-.1800	-.1530	-.0350	-.0700	-.0500	-.0870		
90.000		-.1120	-.0920	-.1020	-.0840	-.1130	-.0990	-.1220		
105.000				-.0810	-.1380	-.1170	-.1200	-.1500		
110.000									-.2450	
120.000		-.0450	.0700	.0130	-.3650	-.2090	-.1210	-.1290	-.1840	
135.000				.3950	-.0670	-.2450	-.1600	-.1810		
150.000		-.0170	.1090	.2290	-.0120	-.2240	-.1990	-.2490		

MACH (1) = .600 ALPHAT(6) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0120		.1850	.1250	-.1850	-.2260	-.2720		
180.000		-.0090	.0690	.1040						

MACH (1) = .600 ALPHAT(7) = 4.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0740	.5270	.0000	-.5390	-.0920	-.1010			-.0990		-.1180	-.0970	-.0550	-.0170	.0210
20.000			-.2690	-.5560	-.1000	-.1020			-.0950		-.1240				
40.000			-.1800	-.4500	-.0660	-.1060			-.1070		-.1650	-.1410	-.0540	-.0220	.0310
55.000			-.1540	-.3980	-.0960	-.0570			-.0790		-.1360				
70.000			-.0970	-.3530	-.1110	-.0500			-.0880		-.1830	-.4380	-.1330	-.0550	-.0380
90.000		.5280	-.1400	-.3340	-.0600	-.0480			-.1010		-.2140	-.4850	-.1300	-.0630	-.0800
120.000			-.1180	-.1890	-.0040	.0250			-.1610		-.3250	-.3280	-.1250	-.0640	-.0480
142.000										-.5310					
150.000			-.0680	-.0700	.0660	.2730			-.2420		-.5480	-.2160	-.1110	-.0660	-.0410
157.000								.1480							
162.000									-.4050						
165.000											-.4940	-.1950	-.1060	-.0630	-.0410
169.000									-.4100						
172.000							.5480								
180.000	1.0740	.4610	-.1420	.0040	.0680	.4860			.0400		-.5620	-.1830	-.1400	-.0640	-.0380

X/LB	.5373	5626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0540							-.0600		-.0540
40.000	.0460	-.0180		-.2200	-.2680	-.1360	-.0730			-.1510
70.000		-.2030	-.2100	-.1610	-.0360	-.0670	-.0490	-.0790		
90.000		-.1470	-.1100	-.1020	-.0910	-.1090	-.0960	-.1180		
105.000				-.0870	-.1390	-.1140	-.1260	-.1470		
110.000									-.2450	
120.000		-.077[illegible]	.06[illegible]	.[illegible]	-.3330	-.2050	-.1230	-.1270	-.1850	
135.000				.5730	-.[illegible]	-.[illegible]340	-.1500	-.1810		
150.000		-.0340	.098[illegible]	.2060	-.[illegible]380	-.2330	-.1990	-.2420		
165.000		-.0310		.1590	.1050	-.1980	-.2290	-.2730		
180.000		-.0290	.0540	.[illegible]						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (1) = .598 ALPHAT(8) = 6.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/B	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0720	.5590	.0000	-.5450	-.1550	-.0790			-.0860		-.1020	-.0820	-.0430	-.0100	.0350
20.000			-.2470	-.5700	-.1580	-.0810			-.0830		-.1150				
40.000			-.1520	-.4660	-.1250	-.0810			-.0890		-.1520	-.1220	-.0440	-.0080	.0420
55.000			-.1240	-.4220	-.0820	-.0430			-.0710		-.1250				
70.000			-.1470	-.3910	-.1040	-.0360			-.0830		-.1810	-.4340	-.1380	-.0670	-.0620
90.000		.5270	-.2070	-.3900	-.0550	-.0280			-.0920		-.2060	-.4890	-.1360	-.0790	-.0840
125.000			-.2200	-.2710	-.0070	.0390			-.1330		-.3450	-.3370	-.1350	-.0780	-.0610
142.000										-.5460					
150.000			-.1990	-.1600	.0420	.2700			-.2610		-.5840	-.2220	-.1170	-.0690	-.0470
157.000								.1490							
162.000									-.4410						
165.000											-.5060	-.1970	-.1120	-.0660	-.0480
169.000									-.4670						
172.000							.5390								
180.000	1.0720	.3750	-.2820	-.1250	.0640	.4740			-.0040		-.5780	-.1780	-.1420	-.0680	-.0450
Y/B	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0770							-.0790		-.0500					
40.000	.0610	-.0050		-.2050	-.2670	-.1360	-.0710			-.1400					
70.000		-.2390	-.2280	-.1710	-.0350	-.0640	-.0440	-.0770							
90.000		-.1740	-.1330	-.1050	-.0850	-.1130	-.0980	-.1160							
109.000				-.0770	-.1300	-.1170	-.1200	-.1450							
110.000									-.2350						
120.000		-.0940	.0480	.0650	-.3210	-.2080	-.1220	-.1340	-.1850						
135.000				.3180	-.0930	-.2450	-.1610	-.1890							
150.000		-.0490	.0790	.1810	-.0580	-.2380	-.2110	-.2540							
165.000		-.0410		.1400	.0780	-.2040	-.2350	-.2710							
190.000		-.0350	.0420	.0560											

MACH (1) = .599 ALPHAT(9) = 8.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

Y/B	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.0410	.5780	.0000	-.5540	-.1330	-.0720			-.0730		-.0900	-.0720	-.0370	.0010	.0470
20.000			-.2120	-.5400	-.1490	-.0730			-.0710		-.1000				
40.000			-.1150	-.4410	-.1070	-.0670			-.0720		-.1360	-.1150	-.0360	.0030	.0520
55.000			-.0950	-.3910	-.0760	-.0340			-.0580		-.1240				
70.000			-.1280	-.3770	-.1120	-.0310			-.0720		-.1720	-.4420	-.1570	-.0760	-.0730
90.000		.5320	-.2140	-.3890	-.0520	-.0250			-.0810		-.2120	-.5100	-.1540	-.0850	-.1050
125.000			-.2460	-.2860	-.0150	.0410			-.1100		-.3740	-.3520	-.1510	-.0900	-.0830

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (1) = .599 ALPHAT(9) = 8.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.5610					
150.000			-.2530	-.2180	.0260	.2630			-.2860		-.6170	-.2300	-.1230	-.0720	-.0610
157.000								.1330							
162.000									-.4740						
165.000											-.5160	-.2040	-.1090	-.0710	-.0560
169.000									-.5110						
172.000							.5150								
180.000	1.0410	.3800	-.3220	-.1620	.0380	.4540			-.0420		-.5820	-.1810	-.1380	-.0680	-.0470

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0890							-.0770		-.0560
40.000	.0730	.0290		-.1970	-.2520	-.1200	-.0400			-.1350
70.000		-.2720	-.2490	-.1800	-.0280	-.0630	-.0360	-.0750		
90.000		-.2000	-.1420	-.1040	-.0730	-.1130	-.0960	-.1150		
105.000				-.0720	-.1170	-.1160	-.1220	-.1430		
110.000									-.2310	
120.000		-.1130	.0380	.0990	-.1970	-.2010	-.1210	-.1270	-.1790	
135.000				.2970	-.1050	-.2450	-.1650	-.1860		
150.000		-.0620	.0630	.1540	-.0850	-.2480	-.2100	-.2520		
155.000		-.0530		.1190	.0590	-.2070	-.2410	-.2690		
180.000		-.0480	.0280	.0330						

MACH (2) = .901 ALPHAT(1) = -8.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1090	.6460	.0000	-.7850	-.6840	-.1000			-.1800		-.3440	-.2060	-.0650	.0020	.0480
20.000			-.0690	-.7760	-.6920	-.1070			-.1790		-.3680				
40.000			-.0420	-.7400	-.3370	-.1480			-.2310		-.4340	-.2690	-.0620	-.0140	.0410
55.000			-.0410	-.7370	-.2020	-.0970			-.1990		-.3950				
70.000			-.0420	-.7080	-.1480	-.0560			-.1910		-.4300	-.7680	-.0680	.0750	.1260
90.000		.6770	-.0340	-.5550	-.0780	-.0600			-.2290		-.4300	-.7830	-.0750	.0500	.0870
120.000			.0960	-.1720	.0650	.0830			-.2590		-.4400	-.8240	-.0300	.0170	.0680
142.000										-1.0710					
150.000			.2200	.0910	.2540	.4740			.1710		-.7060	-.3120	.0130	.0300	.0710
157.000								.4190							
162.000									.0810						
165.000											-1.0810	-.3020	.0510	.0390	.0700
169.000									.1250						
172.000							.8310								

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (2) = .901 ALPHAT(1) = -8.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.1890	.6040	.1970	.1970	.3340	.7440			.4480		-1.0310	-.2300	-.0020	.0320	.0790

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0710							-.0790		-.0340
40.000	.0340	-.0740		-.3680	-.3760	-.2430	-.1860			-.2060
70.000		.0920	.0150	-.0870	-.0760	-.1160	-.0430	-.0560		
90.000		.1090	.0810	-.0400	-.1520	-.1570	-.0870	-.0880		
105.000				-.0370	-.2830	-.1880	-.1050	-.1000		
110.000									-.3050	
120.000		.1070	.2200	.0130	-.5230	-.2760	-.1410	-.1490	-.2530	
135.000				.5750	.0550	-.2700	-.2120	-.2190		
150.000		.1220	.2610	.4700	.2150	-.1640	-.1310	-.2400		
165.000		.1180		.3810	.3300	-.0760	-.0990	-.3220		
180.000		.1240	.2260	.2980						

MACH (2) = .901 ALPHAT(2) = -6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1900	.6620	.0000	-.7760	-.7130	-.0940			-.1700		-.3510	-.2320	-.0790	-.0030	.0470
20.000			-.0550	-.7710	-.7070	-.1030			-.1690		-.3530				
40.000			-.0250	-.7330	-.3420	-.1430			-.2170		-.4170	-.3540	-.0690	-.0150	.0450
55.000			-.0270	-.7360	-.2300	-.0900			-.1790		-.3750				
70.000			-.0350	-.7220	-.1760	-.0520			-.1740		-.4200	-.7730	-.0820	.0630	.1020
90.000		.6780	-.0440	-.6120	-.1100	-.0540			-.2060		-.4300	-.8370	-.0920	.0470	.0700
120.000			.0480	-.2330	.0290	.0810			-.2330		-.4610	-.8440	-.0150	.0200	.0590
142.000										-1.0840					
150.000			.1430	.0710	.2020	.4500			.1540		-.7520	-.3790	.0040	.0270	.0590
157.000								.3980							
162.000									.0530						
165.000											-1.1090	-.3820	.0320	.0420	.0530
169.000									.0840						
172.000							.8010								
180.000	1.1900	.7810	.1160	.1260	.2730	.7100			.4170		-1.0680	-.3040	.0020	.0270	.0580

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0770							-.0710		-.0180
40.000	.0620	-.0540		-.3260	-.3500	-.2250	-.1730			-.1840

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (2) = .901 ALPHAT(2) = -6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.5626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		.0510	-.0160	-.1120	-.0930	-.1340	-.0370	-.0930		
90.000		.0730	.0550	-.0600	-.1700	-.1790	-.0750	-.0680		
105.000				-.0430	-.2850	-.1930	-.0980	-.1010		
110.000									-.3020	
120.000		.0810	.1980	.0260	-.5120	-.2660	-.1300	-.1330	-.2260	
135.000				.5530	.0450	-.4180	-.1910	-.1990		
150.000		.0960	.2360	.4400	.1810	-.2160	-.1430	-.2490		
165.000		.0960		.3600	.2990	-.1210	-.1250	-.3270		
180.000		.0960	.2010	.2680						

MACH (2) = .899 ALPHAT(2) = -4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2110	.6810	.0000	-.7070	-.7270	-.0720			-.1510		-.3050	-.2590	-.0870	-.0030	.0550
20.000			-.0400	-.7640	-.7050	-.0830			-.1480		-.3260				
40.000			-.0070	-.7210	-.3040	-.1190			-.1930		-.3900	-.3930	-.0730	-.0100	.0550
55.000			-.0090	-.7230	-.2190	-.0680			-.1500		-.3470				
70.000			-.0270	-.7260	-.1790	-.0380			-.1490		-.4040	-.7700	-.0990	.0530	.0850
90.000		.6810	-.0520	-.6540	-.1230	-.0370			-.1770		-.4200	-.8370	-.1140	.0460	.0550
120.000			.0070	-.2990	.0080	.0930			-.2060		-.4630	-.8110	-.0260	.0250	.0520
142.000										-1.0920					
150.000			.0850	-.0530	.1630	.4430			.1380		-.7800	-.4550	-.0490	.0310	.0460
157.000								.3680							
162.000									.0270						
165.000											-.9410	-.4900	-.0190	.0470	.0470
169.000									.0460						
172.000							.7850								
180.000	1.2110	.7160	.0290	.0580	.2230	.6930			.3850		-1.1040	-.3460	-.0190	.0230	.0440

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0850							-.0640		.0010
40.000	.0750	-.0280		-.2790	-.3250	-.2130	-.1550			-.1630
70.000		.0140	-.0530	-.1330	-.1100	-.1430	-.0310	-.0480		
90.000		.0350	.0260	-.0780	-.1820	-.2190	-.0720	-.0660		
105.000				-.0500	-.2780	-.2190	-.0930	-.0990		
110.000									-.2950	
120.000		.0550	.1750	.0390	-.4930	-.3070	-.1170	-.1210	-.2190	
135.000				.5020	.0420	-.4310	-.1760	-.1830		
150.000		.0740	.2150	.4010	.1560	-.2480	-.1490	-.2510		

AMES 11-70T IA9 02A + S3 + T9 ORBITER FUSELAGE (RBM844)

MACH (2) = .899 ALPHAT(3) = -4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9539	1.0015	1.0392
PHI										
165.000		.0750		.3300	.2620	-.1620	-.1410	-.3160		
180.000		.0740	.1750	.2410						

MACH (2) = .900 ALPHAT(4) = -1.890

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2060	.7090	.0000	-.7630	-.7180	-.0520			-.1260		-.2710	-.2770	-.1000	-.0060	.0590
20.000			-.0260	-.7570	-.6990	-.0620			-.1260		-.2910				
40.000			.0090	-.7110	-.5640	-.0960			-.1650		-.3430	-.3390	-.0760	-.0080	.0590
55.000			.0060	-.7130	-.1900	-.0450			-.1220		-.3110				
70.000			-.0180	-.7250	-.1800	-.0200			-.1250		-.3800	-.7540	-.1080	.0440	.0660
90.000		.6820	-.0590	-.6800	-.1290	-.0170			-.1450		-.3970	-.8360	-.1250	.0350	.0390
120.000			-.0340	-.3850	-.0130	.1040			-.1690		-.4790	-.8370	-.0340	.0250	.0410
142.000										-1.0980					
150.000			.0130	-.1380	.1210	.4350			.1260		-.8040	-.4990	-.0860	.0260	.0360
157.000								.3820							
162.000									.0010						
165.000											-.9270	-.5260	-.0580	.0470	.0350
169.000									.0070						
172.000							.7710								
180.000	1.2060	.6660	-.0590	-.0210	.1760	.6770			.3490		-1.1390	-.4080	-.0350	.0210	.0310

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0940							-.0610		.0020
40.000	.0820	-.0030		-.2280	-.3270	-.2190	-.1310			-.1570
70.000		-.0300	-.0930	-.1650	-.1280	-.1700	-.0270	-.0380		
90.000		-.0010	-.0120	-.0940	-.1990	-.2390	-.0740	-.0640		
105.000				-.0620	-.2860	-.2600	-.0880	-.0960		
110.000									-.2750	
120.000		.0290	.1490	.0490	-.4820	-.3670	-.1040	-.1110	-.2120	
135.000				.4510	.0200	-.4110	-.1650	-.1750		
150.000		.0510	.1860	.3550	.1140	-.2680	-.1660	-.2460		
165.000		.0500		.2910	.2240	-.1830	-.1680	-.3050		
180.000		.0490	.1500	.2100						

DATE 15 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (2) = .902 ALPHAT(5) = .010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2090	.7120	.0000	-.7550	-.7040	-.0320			-.1060		-.2410	-.2940	-.1170	-.0060	.0580
20.000			-.0180	-.7540	-.6890	-.0440			-.1050		-.2610				
40.000			.0210	-.7010	-.5660	-.0760			-.1370		-.3110	-.3460	-.0890	-.0080	.0610
55.000			.0230	-.7030	-.3080	-.0250			-.0950		-.2740				
70.000			-.0100	-.7230	-.1960	-.0040			-.1010		-.3440	-.7450	-.1250	.0330	.0460
90.000		.6820	-.0630	-.6970	-.1260	.0010			-.1210		-.3820	-.8380	-.1490	.0310	.0240
120.000			-.0690	-.4710	-.0310	.1170			-.1370		-.5050	-.8700	-.0680	.0270	.0320
142.000										-1.0990					
150.000			-.0460	-.2500	.0830	.4280			.1130		-.8290	-.5440	-.1270	.0270	.0240
157.000								.3780							
162.000									-.0200						
165.000											-.9390	-.5640	-.0970	.0510	.0260
169.000									-.0270						
172.000							.7600								
180.000	1.2090	.6220	-.1370	-.1130	.1290	.6600			.3170		-1.1670	-.4640	-.0560	.0210	.0200

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1020							-.0640		-.0170
40.000	.0900	.0170		-.2080	-.3260	-.2120	-.1200			-.1580
70.000		-.0750	-.1390	-.1880	-.1450	-.1660	-.0350	-.0350		
90.000		-.0380	-.0430	-.1090	-.2180	-.2797	-.0690	-.0560		
103.000				-.0700	-.3020	-.3460	-.0650	-.0870		
110.000									-.2780	
120.000		-.0030	.1190	.0490	-.4730	-.4450	-.0960	-.1000	-.2040	
135.000				.4280	-.0020	-.4900	-.1570	-.1680		
150.000		.0210	.1620	.3180	.0750	-.3240	-.1790	-.2540		
165.000		.0260		.2590	.1890	-.2300	-.1900	-.3060		
180.000		.0270	.1280	.1790						

MACH (2) = .902 ALPHAT(6) = 1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2070	.7220	.0000	-.7530	-.6880	-.0270			-.0920		-.2110	-.2530	-.1160	-.0040	.0580
20.000			-.0120	-.7520	-.6740	-.0340			-.0890		-.2270				
40.000			.0360	-.6890	-.5660	-.0590			-.1140		-.2720	-.3220	-.0930	-.0040	.0590
55.000			.0380	-.6910	-.4670	-.0070			-.0720		-.2350				
70.000			.0000	-.7150	-.2200	.0150			-.0730		-.3070	-.7190	-.1300	.0180	.0290
90.000		.6820	-.0670	-.7040	-.1150	.0230			-.0880		-.3600	-.8270	-.1030	.0240	.0250
120.000			-.1030	-.5520	-.0340	.1320			-.0970		-.5270	-.8880	-.1180	.0250	.0190

AMES 11-707 IA9 OA + 55 + T9 ORBITER FUSELAGE (RBMB44)

MACH (2) = .902 ALPHAT(6) = 1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-1.0970					
150.000			-.0960	-.3960	.0650	.4250			.1050		-.8480	-.5510	-.1490	.0260	.0080
157.000								.3760							
162.000									-.0380						
165.000											-.9450	-.5870	-.1020	.0470	.0130
169.000									-.0610						
172.000							.7460								
180.000	1.2070	.5760	-.1950	-.2530	.1010	.6470			.2860		-1.1920	-.4960	-.0630	.0200	.0120

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1060							-.0650		-.0460
40.000	.0910	.0380		-.1870	-.3160	-.2070	-.1030			-.1680
70.000		-.1240	-.1850	-.2120	-.1470	-.2060	-.0150	-.0270		
90.000		-.0780	-.0770	-.1230	-.2310	-.2320	-.0540	-.0520		
105.000				-.0710	-.3010	-.3300	-.0740	-.0750		
110.000									-.2640	
120.000		-.0340	.0960	.0470	-.4640	-.4900	-.0790	-.0850	-.1910	
135.000				.4080	-.0230	-.4910	-.1370	-.1550		
150.000		-.0050	.1350	.2840	.0370	-.3580	-.1780	-.2460		
165.000		.0260		.2310	.1570	-.2550	-.2000	-.3020		
180.000		.0010	.1010	.1500						

MACH (2) = .901 ALPHAT(7) = 4.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2060	.7310	.0090	-.7790	-.6700	-.0310			-.0850		-.1850	-.2270	-.1010	.0040	.0760
20.000			-.0050	-.7490	-.6580	-.0370			-.0810		-.1970				
40.000			.0520	-.6800	-.5620	-.0320			-.1000		-.2430	-.2980	-.0930	.0080	.0810
55.000			.0530	-.6750	-.4690	.0050			-.0570		-.2120				
70.000			.0120	-.7020	-.2560	.0250			-.0560		-.2830	-.7110	-.1550	.0110	.0180
90.000		.6870	-.0680	-.7080	-.0760	.0430			-.0610		-.3380	-.8150	-.2250	.0180	-.0060
120.000			-.1320	-.6170	-.0210	.1510			-.0590		-.5400	-.9010	-.1620	.0260	.0040
142.000										-1.0820					
150.000			-.1440	-.4780	.0580	.4200			.0960		-.8640	-.5870	-.1480	.0260	.0050
157.000								.3760							
162.000									-.0530						
165.000											-.9470	-.5910	-.1170	.0470	.0110
169.000									-.0920						
172.000							.7510								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (2) = .901 ALPHAT(7) = 4.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.2060	.5350	-.2540	-.3410	.0830	.6350			.2560		-1.2160	-.5110	-.0750	.0270	.0090

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1230							-.0660		-.0520
40.000	.1130	.0630		-.1610	-.3000	-.1860	-.0870			-.1500
70.000		-.1730	-.2220	-.2510	-.1510	-.1780	-.0030	-.0130		
90.000		-.1170	-.1010	-.1360	-.2400	-.2780	-.0420	-.0430		
105.000				-.0790	-.3030	-.3680	-.0610	-.0730		
110.000									-.2540	
120.000		-.0630	.0730	.0620	-.4410	-.4890	-.0630	-.0780	-.1850	
135.000				.3640	-.0460	-.5010	-.1200	-.1450		
150.000		-.0250	.1040	.2530	.0020	-.3860	-.1800	-.2480		
165.000		-.0160		.2010	.1260	-.2770	-.2120	-.3000		
180.000		-.0160	.0770	.1210						

MACH (2) = .904 ALPHAT(8) = 6.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2030	.7370	.0000	-.7500	-.6470	-.0480			-.0830		- 00	-.1940	-.0970	.0130	.0480
20.000			-.0070	-.7600	-.6540	-.0520			-.0800		-.1790				
40.000			.0540	-.0800	-.9610	-.0570			-.0930		-.2180	-.2770	-.0940	.0220	.0930
55.000			.0630	-.6690	-.4720	-.0080			-.0490		-.1910				
70.000			.0160	-.7030	-.2420	.0170			-.0470		-.2580	-.7190	-.1770	-.0030	.0360
90.000		.6810	-.0760	-.7230	-.0320	.0440			-.0440		-.3160	-.8170	-.2360	.0020	-.0230
120.000			-.1640	-.6760	.0090	.1530			-.0340		-.5510	-.9240	-.1910	.0130	-.0060
142.000										-1.0730					
150.000			-.1920	-.5580	.0540	.4200			.0800		-.6890	-.6230	-.1520	.0200	-.0010
157.000								.3750							
162.000									-.0750						
165.000											-.9540	-.6040	-.1180	.0440	.0010
169.000									-.1280						
172.000							.7190								
180.000	1.2030	.4930	-.3100	-.4310	.0730	.6170			.2200		-1.2480	-.5200	-.0690	.0250	-.0020

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1380							-.0630		-.0660
40.000	.1230	.0860		-.1340	-.2850	-.1610	-.0810			-.1540

AMES 11-707 IA9 OEA + 03 + T9 ORBITER FUSELAGE (RBN#344)

MACH (2) = .904 ALPHA(8) = 6.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.2390	-.2770	-.2630	-.1700	-.1150	.0010	-.0080		
90.000		-.1600	-.1470	-.1550	-.2730	-.1770	-.0410	-.0410		
105.000				-.0950	-.3270	-.2290	-.0620	-.0720		
110.000									-.2530	
120.000		-.1020	.0450	.0650	-.4380	-.3690	-.0640	-.0790	-.1930	
135.000				.3130	-.0770	-.3840	-.1220	-.1590		
150.000		-.0550	.0800	.2220	-.0360	-.3520	-.1820	-.2540		
165.000		-.0460		.1660	.0970	-.2800	-.2230	-.2950		
180.000		-.0430	.0560	.0930						

MACH (2) = .898 ALPHA(9) = 7.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.1935	.7400	.0000	-.7620	-.5970	-.0640			-.0830		-.1390	-.1670	-.0810	.0160	.1020
20.000			-.0070	-.7590	-.6150	-.0550			-.0770		-.1490				
40.000			.0660	-.6680	-.5180	-.0690			-.0860		-.1880	-.2500	-.0900	.0240	.1030
55.000			.0770	-.6520	-.4530	-.0090			-.0450		-.1590				
70.000			.0260	-.6880	-.1950	.0190			-.0410		-.2290	-.7080	-.1810	-.0150	-.0050
90.000		.6730	-.0760	-.7220	.0100	.0510			-.0330		-.2960	-.8180	-.2470	-.0100	-.0340
120.000			-.1690	-.7070	.0390	.1590			-.0090		-.5430	-.9320	-.2800	.0020	-.0160
142.000										-1.0410					
150.000			-.2530	-.6140	.0560	.4150			.0700		-.9040	-.6710	-.1595	.0220	-.0090
157.000								.3720							
162.000									-.0690						
165.000											-.9920	-.6150	-.1120	.0470	-.0010
169.000									-.1550						
172.000							.7030								
180.000	1.1930	.4540	-.3570	-.4990	.0640	.6000			.1900		-1.2740	-.5340	-.0800	.0310	-.0030

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1500							-.0630		-.0640
40.000	.1310	.0970		-.1190	-.2750	-.1630	-.0740			-.1500
70.000		-.2900	-.3450	-.2700	-.1490	-.0860	-.0090	-.0220		
90.000		-.2270	-.2010	-.1590	-.2670	-.1270	-.0580	-.0430		
105.000				-.1090	-.3140	-.1430	-.0800	-.0800		
110.000									-.2530	
120.000		-.1410	.0210	.0830	-.4180	-.1730	-.0830	-.0890	-.2000	
135.000				.2880	-.0930	-.2240	-.1360	-.1720		
150.000		-.0850	.0530	.1970	-.0600	-.3000	-.1900	-.2640		

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A (RBNB44)

AMES 11-707 IA9 O24 + S3 + T9 ORBITER FUSELAGE

MACH (2) = .898 ALPHAT(9) = 7.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0730		.1430	.0760	-.2670	-.2130	-.3040		
180.000		-.0640	.0290	.0670						

MACH (3) = 1.103 ALPHAT(1) = -8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2850	.8210	.0000	-.3480	-.3300	.2070			.1060		-.0390	-.1860	-.2670	-.3360	.0350
20.000			.2200	-.3660	-.3180	.1920			.1050		-.059				
40.000			.2360	-.3270	-.1600	.1350			.0500		-.1280	-.2280	-.2860	-.3270	-.0080
55.000			.2370	-.3440	.1070	.1680			.0790		-.1130				
70.000			.2390	-.3330	.1350	.1960			.0910		-.1700	-.4410	-.4080	-.0940	-.0210
90.000		.8440	.2410	-.2630	.1600	.1780			.0650		-.1950	-.5000	-.4310	-.1150	-.0470
120.000			.3310	.0390	.2610	.2970			.0400		-.2170	-.5110	-.2790	-.1800	-.0680
142.000										-.6230					
150.000			.4240	.2730	.4220	.6500			.4150		-.3960	-.2940	-.1810	-.1430	-.0610
157.000								.6170							
162.000									.3350						
165.000											-.7130	-.2630	-.1440	-.1180	-.0610
169.000									.3710						
172.000							.9710								
180.000	1.2850	.9530	.3920	.3690	.4900	.8870			.6490		-.6240	-.4600	-.1530	- 1150	-.0500

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1390							.0080		-.1390
40.000	.1100	.0890		-.3250	-.3230	-.3100	-.3280			-.2530
70.000		.1720	.1940	.1410	.1250	-.0720	-.1190	-.0390		
90.000		.1860	.2510	.1770	.0620	-.0800	-.1270	-.0430		
105.000				.1680	-.0400	-.0830	-.1180	-.0880		
110.000									-.2780	
120.000		.1830	.3700	.2460	-.1900	-.1500	-.0860	-.1140	-.2220	
135.000				.7690	.2870	-.2270	-.0510	-.0770		
150.000		.1620	.4140	.6050	.4270	-.0020	-.0050	-.0420		
165.000		.1410		.5590	.5150	.0950	.0610	-.2740		
180.000		.1260	.3820	.4860						

AMES 11-70? IA9 OEA + S3 + T9 ORBITER FUSELAGE (FBWB44)

MACH (3) = 1.097 ALPHAT(2) = -5.950

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	.8240	.0000	-.3730	-.3320	.2130			.1140		-.0350	-.1810	-.2590	-.3420	.0470
20.000			.2230	-.3690	-.3180	.1970			.1100		-.0560				
40.000			.2450	-.3240	-.2009	.1530			.0580		-.1200	-.2240	-.2840	-.3470	.0190
55.000			.2470	-.3440	.1350	.1910			.0860		-.1040				
70.000			.2440	-.3420	.1320	.1980			.0950		-.1650	-.4490	-.4140	-.1330	-.0340
90.000		.8440	.2320	-.2900	.1490	.1590			.0670		-.1970	-.5060	-.4550	-.1440	-.0320
120.000			.2970	-.0200	.2350	.2750			.0420		-.2440	-.5310	-.3070	-.1850	-.0780
142.000										-.6410					
150.000			.3620	.2060	.3790	.6310			.3960		-.4360	-.3430	-.2260	-.1700	-.0820
157.000								.6020							
162.000									.3050						
165.000											-.7470	-.3070	-.1880	-.1470	-.0820
169.000									.3320						
172.000							.9560								
180.000	1.2930	.9130	.3210	.3020	.4410	.8670			.6170		-.6600	-.5090	-.1390	-.1460	-.0760

X/LB	.5873	.6625	.7380	.7869	.8283	.8848	.9262	.9839	1.0015	1.0392
PHI										
.000	.1410							.0130		-.1250
40.000	.1150	.1000		-.3110	-.2850	-.2460	-.2690			-.2410
70.000		.1350	.1610	.1220	.1080	-.0850	-.1570	-.0870		
90.000		.1500	.2250	.1570	.0480	-.1030	-.1500	-.1040		
105.000				.1610	-.0340	-.1020	-.1410	-.1410		
110.000									-.2960	
120.000		.1510	.3500	.2630	-.1770	-.1760	-.1010	-.1330	-.2390	
135.000				.7460	.2790	-.2400	-.0710	-.0860		
150.000		.1360	.3930	.5720	.4020	-.0320	-.0390	-.0710		
165.000		.1180		.5370	.4820	.0680	.0260	-.2920		
180.000		.1000	.3610	.4630						

MACH (3) = 1.100 ALPHAT(3) = -3.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2950	.8270	.0000	-.4050	-.3240	.1950			.1330		-.0170	.0561	-.0361	-.1220	.0440
20.000			.2100	-.3720	-.3100	.1930			.1300		-.0370				
40.000			.2450	-.3280	-.2110	.1760			.0790		-.1000	-.0231	-.0541	.0281	.0170
55.000			.2520	-.3410	-.1030	.1560			.1100		-.0820				
70.000			.2420	-.3470	.1110	-.0350			.1150		-.1470	-.4160	-.3141	.1590	-.0240
90.000		.8430	.2220	-.3050	.1440	.0390			.0780		-.1830	-.4960	-.4231	-.1570	-.0330
120.000			.2560	-.1130	.2060	.2520			.0320		-.1620	-.5140	-.3054	-.1790	-.0780

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (3) = 1.100 ALPHAT(3) = -3.970

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6550					
150.000			.5060	.1150	.3320	.6120			.3730		-.4750	-.3620	-.2620	-.1800	-.0760
157.000								.5620							
162.000									.2780						
165.000											-.7630	-.3480	-.2290	-.1600	-.0770
169.000									.2970						
172.000							.9350								
180.000	1.2950	.8690	.2470	.2200	.3800	.8400			.5810		-.6810	-.5460	-.2110	-.1590	-.0740

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1580							.0190		-.1230
40.000	.1380	.1240		-.2850	-.2450	-.3170	-.2840			-.2200
70.000		.0920	.1260	.0970	.0940	-.1120	-.1780	-.1220		
90.000		.1070	.1970	.1340	.0280	-.1260	-.1630	-.1430		
105.000				.1420	-.0320	-.1240	-.1580	-.1670		
110.000									-.3050	
120.000		.1090	.3270	.2720	-.1620	-.1950	-.1180	-.1400	-.2490	
135.000				.7140	.2690	-.2430	-.0970	-.0920		
150.000		.0970	.3700	.5380	.3770	-.0590	-.0660	-.0940		
165.000		.0900		.5060	.4450	.0410	-.0060	-.3070		
180.000		.0750	.3370	.4360						

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3090	.6750	.0000	-.4370	-.2230	.0670			.1120		-.0140	-.1400	-.1990	-.2930	.0530
20.000			.0040	-.4630	-.2440	.0530			.1070		-.0330				
40.000			.1350	-.4310	-.1600	-.0240			.0590		-.1030	-.1890	-.2480	-.3040	.0430
55.000			.1840	-.3980	-.1660	.0600			.1050		-.0720				
70.000			.2310	-.3690	-.0670	.0370			.1130		-.1400	-.4420	-.4080	-.1870	-.0620
90.000		.8510	.2160	-.3240	.0970	.0600			.0870		-.1870	-.5000	-.4640	-.1740	-.0710
120.000			.2330	-.2110	.1540	.2580			.0580		-.2920	-.5540	-.3530	-.1800	-.0620
142.000										-.6640					
150.000			.2600	-.0030	.2850	.6000			.3580		-.5030	-.4190	-.3030	-.1970	-.0700
157.000								.5710							
162.000									.2530						
165.000											-.7900	-.3850	-.2660	-.1830	-.0730
169.000									.2610						
172.000							.9240								

AMES 11-707 IA9 C2A + S3 + '9 ORBITER FUSELAGE (RBNB44)

MACH (3) = 1.102 ALPHAT(4) = -1.990

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3090	.8510	.1900	.1220	.3300	.8260			.5530		-.7130	-.5860	-.2390	-.1820	-.0730

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1580							.0170		-.1100
40.000	.1420	.1300		-.2440	-.2120	-.2910	-.2400			-.1910
70.000		.0300	.0750	.0710	.0830	-.1240	-.2000	-.1680		
90.000		.0620	.1400	.1160	.0210	-.1310	-.1980	-.1800		
105.000				.1280	-.0240	-.1320	-.1950	-.1960		
110.000									-.3310	
120.000		.0720	.2970	.2770	-.1420	-.2090	-.1460	-.1590	-.2560	
135.000				.6890	.2550	-.2500	-.1080	-.1050		
150.000		.0630	.3430	.4850	.3470	-.0850	-.0910	-.1200		
165.000		.0580		.4730	.4130	.0140	-.0390	-.3290		
180.000		.0530	.3040	.4040						

MACH (3) = 1.100 ALPHAT(5) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3210	.5710	.0000	-.4640	.0270	-.2050			.1270		.0080	-.1100	-.1700	-.2550	.0420
20.000			-.1330	-.5160	.0090	-.1710			.1160		-.0090				
40.000			.0560	-.5000	-.0450	-.2000			.0680		-.0770	-.1540	-.2170	-.2720	.0410
55.000			.1750	-.4110	-.1830	-.1140			.1430		-.0440				
70.000			.2220	-.3780	-.2150	-.0160			.1420		-.1170	-.4430	-.3950	-.2100	-.0710
90.000		.8490	.2170	-.3360	-.1280	.0620			.1100		-.1740	-.4970	-.4630	-.1890	-.0780
120.000			.2180	-.2560	.1260	.2620			.0480		-.3030	-.5620	-.3810	-.1690	-.0630
142.000										-.6770					
150.000			.2280	-.1280	.2430	.5950			.3450		-.5360	-.4530	-.2310	-.1960	-.0670
157.000								.5670							
162.000									.2310						
165.000											-.8190	-.4190	-.2970	-.1900	-.0720
169.000									.2270						
172.000							.9180								
180.000	1.3210	.8490	.1440	-.0260	.2830	.8130			.5220		-.7450	-.6260	-.3490	-.1930	-.0720

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1550							.0080		-.1000
40.000	.1380	.1300		-.1710	-.1780	-.2280	-.2270			-.1740

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (3) = 1.100 ALPHAT(5) = .030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.0020	-.0240	.0330	.0630	-.1240	-.2230	-.1880		
90.000		.0330	.0780	.0860	-.0020	-.1390	-.2260	-.1890		
105.000				.0970	-.0470	-.1500	-.2170	-.2100		
110.000									-.3280	
120.000		.0560	.2560	.2740	-.1410	-.2370	-.1720	-.1730	-.2640	
135.000				.6520	.2360	-.2680	-.1370	-.1240		
150.000		.0630	.3040	.4240	.3140	-.1110	-.1210	-.1520		
165.000		.0580		.4330	.3780	-.0110	-.0730	-.3380		
180.000		.0590	.2660	.3710						

MACH (3) = 1.101 ALPHAT(6) = 2.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3613	.5120
PHI															
.000	1.3180	.4750	.0000	-.4250	.1280	-.1540			.1110		.0150	-.0890	-.1590	-.2100	.0390
20.000			-.2470	-.5140	.1030	-.0090			.1020		.0010				
40.000			-.0020	-.5070	.1030	-.0080			.0640		-.0580	-.1330	-.1900	-.2270	.0430
55.000			.1630	-.4290	-.0020	-.0860			.1480		-.0200				
70.000			.2280	-.3760	-.1950	-.0400			.1560		-.0910	-.4370	-.3690	-.2360	-.0660
90.000		.8510	.2190	-.3390	-.2020	.0520			.1330		-.1610	-.5000	-.4610	-.2070	-.0810
120.000			.2010	-.2800	.1190	.2570			.0870		-.3060	-.5730	-.4140	-.1750	-.0650
142.000										-.6790					
150.000			.1970	-.2130	.2210	.5870			.3330		-.5530	-.4830	-.3510	-.1950	-.0650
157.000								.5640							
162.000									.2170						
165.000											-.8400	-.4440	-.3160	-.1970	-.0680
169.000									.1990						
172.000							.9080								
180.000	1.3180	.8330	.1060	-.1050	.2590	.7970			.4930		-.7760	-.6580	-.2640	-.2030	-.0690

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1360							.0000		-.0840
40.000	.1170	.1170		-.0930	-.1360	-.2290	-.1990			-.1630
70.000		-.0240	-.1170	-.0150	.0370	-.1380	-.2310	-.2090		
90.000		.0110	.0060	.0420	-.0370	-.1630	-.2560	-.2050		
105.000				.0770	-.0610	-.1570	-.2440	-.2310		
110.000									-.3400	
120.000		.0310	.1910	.2430	-.1390	-.2630	-.1930	-.1800	-.2730	
135.000				.6110	.2120	-.2910	-.1370	-.1520		
150.000		.0320	.2560	.3700	.2730	-.1390	-.1460	-.1800		

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB44)

MACH (3) = 1.101 ALPHAT(6) = 2.040

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0360		.3880	.3480	-.0360	-.1010	-.3520		
180.000		.0370	.2200	.3370						

MACH (3) = 1.102 ALPHAT(7) = 3.980

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	.3690	.0000	-.3540	.0970	.0540			.0870		.0110	-.0890	-.1360	-.1650	.0330
20.000			-.3130	-.4400	.0520	.0480			.0820		-.0010				
40.000			-.0470	-.4480	.0280	.0640			.0580		-.0460	-.1130	-.1640	-.1930	.0490
55.000			.1410	-.3890	.0650	-.0130			.1570		-.0050				
70.000			.2430	-.3530	-.1270	.0300			.1640		-.0730	-.4260	-.3790	-.2580	-.0570
90.000		.8540	.2320	-.3250	-.1880	.0790			.1600		-.1410	-.4910	-.4480	-.2320	-.0740
120.000			.1950	-.2840	-.0440	.2660			.1330		-.2950	-.5680	-.4540	-.1870	-.0620
142.000										-.6750					
150.000			.1690	-.2530	.0900	.5820			.3270		-.5510	-.4950	-.3750	-.1960	-.0650
157.000								.5640							
162.000									.2060						
165.000											-.8460	-.4500	-.3260	-.2070	-.0650
169.000									.1750						
172.000							.8990								
180.000	1.3100	.8180	.0770	-.1520	.1020	.7850			.4690		-.7880	-.6650	-.2800	-.2150	-.0650

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1340							.0000		-.0630
40.000	.1150	.1200		-.0270	-.1390	-.1850	-.1750			-.1450
70.000		-.0400	-.2030	-.0790	.0080	-.1480	-.2400	-.2260		
90.000		.0040	-.0890	-.0040	-.0840	-.1800	-.2730	-.2280		
105.000				.0330	-.0910	-.1810	-.2670	-.2540		
110.000									-.3530	
120.000		.0180	.1450	.2330	-.1430	-.2900	-.2120	-.2120	-.2920	
135.000				.5390	.1990	-.2940	-.1870	-.1690		
150.000		.0220	.2070	.3490	.2440	-.1600	-.1700	-.2030		
165.000		.0280		.3530	.3120	-.0630	-.1250	-.3590		
180.000		.0270	.1750	.2990						

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + 33 + T9 ORBITER FUSELAGE (RBNB44)

MACH (3) = 1.105 ALPHAT(8) = 6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3010	.1940	.0000	-.2700	.0870	.0260			.0610		.0070	-.0510	-.1000	-.1280	.0370
20.000			-.3440	-.3560	.0260	.0030			.0560		-.0050				
40.000			-.0580	-.3940	-.0080	.0200			.0390		-.0460	-.0930	-.1270	-.1510	.0430
55.000			.1660	-.3540	.0650	.1040			.1450		.1020				
70.000			.2570	-.3250	-.0980	.1690			.1700		-.0630	-.4190	-.3680	-.2600	-.0520
90.000		.8690	.2530	-.3100	-.1760	.1850			.1760		-.1260	-.4940	-.4330	-.2510	-.0700
120.000			.1870	-.2900	-.0960	.2900			.1740		-.2910	-.5580	-.4820	-.1990	-.0560
142.000										-.6720					
150.000			.1500	-.2900	.0040	.5820			.3230		-.5560	-.5140	-.3970	-.1940	-.0470
157.00								.5670							
162.000									.1950						
165.000											-.8530	-.4610	-	-.2010	-.0480
169.000									.1540						
172.000							.8910								
180.000	1.3010	.7980	.0400	-.1870	.0310	.7740			.4450		-.6020	-.4660	-.2930	-.2190	-.0470

X/LB	.5873	.6526	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1370							.0010		-.0600
40.000	.1220	.1340		-.0030	-.1300	-.1620	-.1580			-.1280
70.000		-.0320	-.2460	-.1870	-.0160	-.1780	-.2660	-.2520		
90.000		.0170	-.1560	-.0400	-.1290	-.1940	-.2870	-.2620		
105.000				.0230	-.1340	-.1950	-.3020	-.2880		
110.000									-.3560	
120.000		.0140	.1130	.2460	-.1350	-.3270	-.2300	-.2420	-.3000	
135.000				.4590	.1710	-.3200	-.2070	-.1900		
150.000		.0220	.1700	.3090	.2010	-.1790	-.1910	-.2310		
165.000		.0260		.3080	.2640	-.0810	-.1500	-.3640		
180.000		.0290	.1340	.2570						

MACH (3) = 1.102 ALPHAT(9) = 8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2610	.0920	.0000	-.1420	.0970	-.0040			.0470		.0130	-.0310	-.0710	-.0900	.0460
20.000			-.3350	-.2800	.0330	-.0250			.0410		.0030				
40.000			-.0820	-.3480	-.0110	-.0550			.0400		-.0380	-.0760	-.1000	-.1110	.0460
55.000			.1780	-.2940	.0670	-.0380			.1570		.0200				
70.000			.2930	-.2800	-.0440	.0550			.1780		-.0440	-.4110	-.3660	-.2560	-.0540
90.000		.8730	.2800	-.2370	-.1020	.1410			.1900		-.1150	-.4940	-.4180	-.2760	-.0790
120.000			.1900	-.2950	-.1020	.2920			.1970		-.2890	-.5690	-.4990	-.2180	-.0560

AMES 11-7J7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (3) = 1.102 ALPHAT(9) = 8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.6750					
150.000			.1410	-.3140	-.0310	.5760			.3130		-.5680	-.5390	-.4200	-.1910	-.0370
157.000								.5670							
162.000									.1800						
165.000											-.8630	-.4740	-.3520	-.1920	-.0330
169.000									.1290						
172.000							.6800								
180.000	1.2610	.7830	.0160	-.2230	-.0230	.7570			.4160		-.8200	-.6620	-.3070	-.2150	-.0340

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1350							-.0010		-.0610
40.000	.1250	.1480		.0070	-.1310	-.1600	-.1900			-.1320
70.000		-.0450	-.2750	-.2480	-.0570	-.2070	-.2680	-.2460		
90.000		-.0010	-.2000	-.0580	-.1790	-.1900	-.3200	-.3100		
105.000				.0150	-.1560	-.1860	-.3300	-.3130		
110.000									-.3720	
120.000		-.0080	.0730	.2670	-.1520	-.3650	-.2490	-.2630	-.3210	
135.000				.4130	.1410	-.3300	-.2310	-.2070		
150.000		.0140	.1460	.2530	.1660	-.1970	-.2060	-.2550		
165.000		.0200		.2700	.2320	-.0960	-.1620	-.3640		
180.000		.0290	.1010	.2180						

MACH (4) = 1.247 ALPHAT(1) = -8.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3710	.6960	.0000	-.1570	-.1440	.1060			.2510		.1030	-.0380	-.1480	-.2340	-.2510
20.000			.3330	-.1800	-.1300	.0410			.2490		.0890				
40.000			.3540	-.1800	-.0520	-.0830			.1990		.0090	-.0920	-.1640	-.2360	-.2240
55.000			.3630	-.1810	.0120	-.0390			.1810		.0050				
70.000			.3640	-.1820	.1890	.1030			.0950		-.0540	-.3060	-.2790	-.0780	-.0020
90.000		.9370	.3540	-.1360	.2080	.1750			.0620		-.1040	-.3500	-.3160	-.0900	-.0180
120.000			.4080	.0400	.2940	.3740			.1370		-.2090	-.3960	-.2060	-.1390	-.0410
142.000										-.4350					
150.000			.4660	.2570	.4440	.7260			.5180		-.3090	-.2640	-.1690	-.1000	-.0340
157.000								.7100							
162.000									.4330						
165.000											-.5440	-.2200	-.1500	-.0790	-.0360
169.000									.4650						
172.000							1.0410								

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBNB44)

MACH (4) = 1.247 ALPHAT(1) = -8.060

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3710	.9960	.4180	.3590	.5000	.9510			.7250		-.4570	-.3500	-.1380	-.0710	-.0320
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.0450							.0410		-.1560					
40.000	-.1060	.0580		-.2190	-.3110	-.3670	-.3000			-.1520					
70.000		-.0770	.0900	.1540	.1530	.0040	-.0440	.0170							
90.000		-.0560	.1480	.1670	.1110	.0020	-.0510	.0120							
105.000				.1530	.0280	-.0190	-.0490	-.0120							
110.000									-.1580						
120.000		-.0430	.2460	.3040	-.0760	-.1370	-.0180	-.0130	-.1140						
135.000				.8290	.3600	-.1320	.0660	-.0070							
150.000		-.0110	.1750	.4080	.4870	.0970	.0620	.0010							
165.000		-.0110		.5110	.6330	.1960	.1470	-.1890							
180.000		-.0020	.1600	.4450											

MACH (4) = 1.250 ALPHAT(2) = -5.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3820	.8960	.0000	-.1950	-.1270	.0450			.2330		.1250	-.0190	-.1230	-.2180	-.2780
20.000			.3020	-.1870	-.1160	.0020			.2200		.1050				
40.000			.3440	-.1790	-.0420	-.1550			.1310		.0130	-.0710	-.1400	-.2320	-.2260
55.000			.3600	-.1850	-.0110	-.0300			.0780		.0250				
70.000			.3680	-.1860	.0080	.0970			.0440		-.0470	-.2980	-.2670	-.0980	-.0300
90.000		.9360	.3470	-.1470	.1620	.1780			.0730		-.1460	-.3280	-.3160	-.1030	-.0430
120.000			.3780	-.0330	.2580	.3760			.1520		-.2070	-.4210	-.2270	-.1450	-.0500
142.000										-.4390					
150.000			.4180	.1480	.3910	.7130			.5030		-.3040	-.2790	-.2160	-.1250	-.0470
157.000								.6990							
162.000									.4110						
165.000											-.5430	-.2370	-.1910	-.1090	-.0470
169.000									.4330						
172.000							1.0290								
180.000	1.3820	.9600	.3560	.2560	.4440	.9320			.6970		-.4610	-.3640	-.1660	-.1150	-.0420
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0330							.0520		-.1450					
40.000	-.0630	.1310		-.1960	-.2660	-.3480	-.2880			-.1380					

DATE 13 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBNB44)

MACH (4) = 1.250 ALPHAT(2) = -5.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1070	.0760	.1180	.1320	-.0130	-.0730	-.0250		
90.000		-.0720	.1270	.1440	.0890	-.0130	-.0770	-.0340		
105.000				.1420	.0310	-.0140	-.0760	-.0540		
110.000									-.1720	
120.000		-.0490	.2270	.3130	-.0520	-.1580	-.0350	-.0380	-.1220	
135.000				.8000	.3560	-.1350	-.0670	-.0170		
150.000		-.0210	.1700	.4070	.4640	.0730	.0390	-.0130		
165.000		-.0200		.4860	.5950	.1750	.1200	-.2030		
180.000		-.0150	.0730	.4270						

MACH (4) = 1.247 ALPHAT(3) = -3.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4120	.7670	.0000	-.2490	-.0660	.0420			-.0550		.1270	-.0010	-.0980	-.2010	-.2870
20.000			.0810	-.3180	-.0770	.0330			-.0390		.1080				
40.000			.2260	-.3240	-.0230	-.0820			-.0280		-.0360	-.0630	-.1260	-.2190	-.2240
55.000			.3040	-.2590	-.0910	.0170			.0620		-.0140				
70.000			.3410	-.2310	-.1270	.1040			.0590		-.1150	-.3270	-.2860	-.1210	-.0540
90.000		.9470	.3380	-.1780	-.0780	.1820			.0990		-.1520	-.3590	-.3480	-.1170	-.0660
120.000			.3490	-.0910	.2310	.3720			.1710		-.2260	-.4510	-.2750	-.1670	-.0670
142.000										-.4570					
150.000			.3670	.0070	.3220	.6960			.4790		-.3340	-.3160	-.2520	-.1610	-.0660
157.000								.6760							
162.000									.3830						
165.000											-.5690	-.2760	-.2260	-.1520	-.0670
169.000									.3910						
172.000							1.0090								
180.000	1.4120	.9360	.2940	.1200	.3680	.9110			.6560		-.4920	-.4010	-.1980	-.1620	-.0820

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0880							.0440		-.1200
40.000	.0130	.1370		-.1810	-.2210	-.3440	-.2770			-.1250
70.000		-.1100	.0320	.0800	.1100	-.0350	-.1020	-.0630		
90.000		-.0780	.0930	.1150	.0590	-.0310	-.1080	-.0730		
105.000				.1170	.0290	-.0320	-.1100	-.0860		
110.000									-.1860	
120.000		-.0580	.2010	.3060	-.0480	-.1760	-.0590	-.0640	-.1370	
135.000				.7420	.3420	-.1470	-.0750	-.0330		
150.000		-.0450	.1820	.4300	.4350	.0440	.0080	-.0360		

DATE 13 SEP 75 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (3) = 1.247 ALPHAT(3) = -3.960

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0450		.4640	.5240	.1500	.0840	-.2200		
180.000		-.0410	.0420	.4150						

MACH (4) = 1.248 ALPHAT(4) = -2.000

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4090	.7070	.0000	-.3130	.0350	-.0650			-.1730		.1560	.0250	-.0560	-.1630	-.2730
20.000			-.0300	-.3690	.0280	-.0850			-.1590		.1160				
40.000			.1750	-.3770	-.0420	-.1030			-.1420		-.0630	-.0530	-.1040	-.2050	-.2140
55.000			.2840	-.2690	-.1010	.0220			-.0220		-.0750				
70.000			.3350	-.2330	-.1320	.1210			.0560		-.1560	-.3390	-.2940	-.1390	-.0690
90.000		.9370	.3310	-.1850	-.0920	.1950			.1130		-.1910	-.4225	-.3580	-.1250	-.0750
120.000			.3340	-.1080	.0880	.3770			.1920		-.2410	-.4690	-.3440	-.1700	-.0790
142.000										-.4660					
150.000			.3430	-.0460	.2430	.6920			.4650		-.3550	-.3460	-.2840	-.1990	-.0760
157.000								.6700							
162.000									.3600						
165.000											-.5870	-.3060	-.2580	-.2010	-.0740
169.000									.3540						
172.000							1.0070								
180.000	1.4090	.9120	.2630	.0600	.2800	.8990			.6230		-.5170	-.4300	-.2210	-.1970	-.0650

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1000							.0360		-.0960
40.000	.0540	.1600		-.1690	-.1890	-.3510	-.2700			-.1160
70.000		-.1150	-.0150	.0340	.0910	-.0480	-.1210	-.1030		
90.000		-.0820	.0520	.1000	.0290	-.0450	-.1310	-.1050		
105.000				.1180	.0180	-.0600	-.1390	-.1120		
110.000									-.2080	
120.000		-.0590	.1840	.3050	-.0280	-.1910	-.0790	-.0870	-.1520	
135.000				.6840	.3240	-.1600	-.0860	-.0500		
150.000		-.0450	.1920	.3920	.4010	.0170	-.0140	-.0570		
165.000		-.0460		.4300	.4630	.1260	.0510	-.2330		
180.000		-.0450	.0510	.3880						

AMES 11-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (4) = 1.248 ALPHAT(5) = .020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4060	.6500	.0000	-.3770	.1540	-.1140			-.2150		.1390	.0640	-.0270	-.1590	-.2290
20.000			-.1090	-.3890	.1620	-.1260			-.2060		.1070				
40.000			.1230	-.4010	.1010	-.1500			-.1990		-.0170	-.0250	-.0770	-.1870	-.1900
55.000			.2710	-.2850	-.1080	-.0220			-.0560		-.1450				
70.000			.3310	-.2340	-.1370	.0820			.0420		-.1640	-.3480	-.2640	-.1550	-.0800
90.000		.9380	.3260	-.1900	-.1030	.1760			.1090		-.2140	-.4400	-.3330	-.1400	-.0840
120.000			.3150	-.1200	.0310	.3750			.2050		-.2550	-.4820	-.3860	-.1550	-.0910
142.000										-.4750					
150.000			.3130	-.0820	.1680	.6860			.4520		-.3750	-.3770	-.3160	-.2210	-.0770
157.000								.6750							
162.000									.3410						
165.000											-.6040	-.3330	-.2920	-.2340	-.0730
169.000									.3220						
172.000							1.0010								
180.000	1.4060	.8850	.2290	.0160	.2020	.8850			.5900		-.5380	-.4540	-.2490	-.2350	-.0640

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1010							.0240		-.0870
40.000	.0660	.1750		-.1570	-.1350	-.3500	-.2580			-.1060
70.000		-.1170	-.0540	-.0180	.0580	-.0670	-.1450	-.1450		
90.000		-.0890	.0120	.0740	-.0030	-.0650	-.1640	-.1440		
105.000				.1090	-.0040	-.0850	-.1720	-.1480		
110.000									-.2230	
120.000		-.0600	.1650	.3140	-.0310	-.2120	-.1080	-.1140	-.1750	
135.000				.6280	.2980	-.1760	-.1020	-.0700		
150.000		-.0440	.1910	.3530	.3820	-.0110	-.0420	-.0850		
165.000		-.0440		.3910	.4190	.0980	.0220	-.2510		
180.000		-.0430	.0730	.3500						

MACH (4) = 1.244 ALPHAT(6) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4040	.6120	.0000	-.3500	.1870	-.1270			-.2410		.1480	.0770	-.0200	-.1420	-.1640
20.000			-.1830	-.3660	.1480	-.1390			-.2360		.1130				
40.000			.0730	-.3430	.1110	-.1730			-.2350		.0270	-.0200	-.0700	-.1720	-.1490
55.000			.2620	-.2870	-.0930	-.0700			-.0690		-.0110				
70.000			.3340	-.2330	-.1340	.0350			.0310		-.1740	-.2960	-.2690	-.1740	-.0920
90.000		.9510	.3360	-.1880	-.1160	.1500			.1060		-.2210	-.4590	-.3270	-.1660	-.0940
120.000			.3040	-.1340	.0010	.3640			.2110		-.2740	-.4980	-.4180	-.1720	-.0890

AMES 11-707 IA9 02A + 33 + T9 ORBITER FUSELAGE (RBNB44)

MACH (4) = 1.244 ALPHAT(6) = 2.070

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000										-.4810					
150.000			.2870	-.1130	.1210	.6770			.4450		-.4040	-.4180	-.3500	-.1990	-.0810
157.000								.6750							
162.000									.3310						
165.000											-.6280	-.3660	-.3270	-.2280	-.0770
169.000									.3020						
172.000							.9970								
180.000	1.4040	.8650	.1940	-.0220	.1500	.8690			.5680		-.5680	-.4880	-.2770	-.2650	-.0620

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1000							.0160		-.0720
40.000	.0710	.1590		-.1480	-.0730	-.3470	-.2310			-.1250
70.000		-.0970	-.1080	-.0750	.0250	-.0880	-.1600	-.1810		
90.000		-.0740	-.0380	.0440	-.0360	-.0880	-.1890	-.1800		
105.000				.1010	-.0360	-.1140	-.1980	-.1310		
110.000									-.2440	
120.000		-.0630	.1110	.3020	-.0340	-.2440	-.1450	-.1360	-.1890	
135.000				.5900	.2750	-.2000	-.1230	-.0020		
150.000		-.0470	.1860	.3200	.3200	-.0400	-.0660	-.1070		
165.000		-.0450		.3480	.3900	.0700	-.0050	-.2660		
180.000		-.0430	.1040	.3230						

MACH (4) = 1.248 ALPHAT(7) = 4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4000	.4960	.0000	-.2890	.1990	-.1320			-.2470		.1510	.0760	-.0190	-.1080	-.1150
20.000			-.2490	-.3330	.1460	-.1520			-.2450		.1080				
40.000			.0240	-.3130	.1090	-.1900			-.2440		.0330	-.0020	-.0610	-.1350	-.1150
55.000			.2350	-.2990	.0060	-.0940			-.0910		.0880				
70.000			.3360	-.2260	-.1010	-.0280			.0190		-.1330	-.2850	-.2640	-.1880	-.1040
90.000		.9490	.3370	-.1680	-.1150	.1030			.1050		-.2200	-.3890	-.3220	-.1910	-.1090
120.000			.2870	-.1460	-.0220	.3470			.2140		-.2830	-.5080	-.3520	-.1880	-.0930
142.000										-.4840					
150.000			.2590	-.1450	.0810	.6620			.4360		-.4210	-.4520	-.3740	-.2020	-.0730
157.000								.6720							
162.000									.3210						
165.000											-.6410	-.3950	-.3530	-.2030	-.0660
169.000									.2850						
172.000							.9880								

AMES 11-7ft IA9 O2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (4) = 1.248 ALPHAT(7) = 4.020

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.4000	.8430	.1600	-.0570	.1040	.8470			.5480		-.5870	-.5120	-.2990	-.2670	-.0620

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1000							.0130		-.0760
40.000	.0780	.1500		-.1050	-.0680	-.3400	-.2130			-.1230
70.000		-.1010	-.1450	-.1200	-.0110	-.1050	-.1830	-.2130		
90.000		-.0670	-.0820	.0230	-.0850	-.1030	-.2070	-.2070		
105.000				.0640	-.0440	-.1360	-.2170	-.2170		
110.000									-.2590	
120.000		-.0580	.0890	.2790	-.0370	-.2630	-.1820	-.1590	-.2100	
135.000				.5480	.2620	-.2170	-.1400	-.1150		
150.000		-.0460	.1600	.2980	.2770	-.0660	-.0860	-.1280		
165.000		-.0440		.3110	.3560	.0470	-.0300	-.2820		
180.000		-.0410	.0990	.2920						

MACH (4) = 1.246 ALPHAT(8) = 6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3910	.3660	.0000	-.2500	.2000	-.1380			-.2250		.1170	.0540	-.0160	-.0630	-.0580
20.000			-.2910	-.3030	.1530	-.1570			-.2140		.0850				
40.000			-.0430	-.3110	.1160	-.1880			-.2210		.0700	.0030	-.0470	-.0900	-.0720
55.000			.2070	-.2770	.1010	-.1050			-.0490		-.0250				
70.000			.3350	-.2080	-.0670	-.0560			.0120		-.1130	-.2760	-.2660	-.1900	-.1260
90.000		.9400	.3370	-.1830	-.1110	.0140			.0990		-.1610	-.4220	-.3100	-.2080	-.1330
120.000			.2710	-.1610	-.0410	.3160			.2050		-.2990	-.4850	- 3840	-.2110	-.1010
142.000										-.4940					
150.000			.2280	-.1760	.0410	.6390			.4170		-.4430	-.4880	-.3740	-.2070	-.0640
157.000								.6660							
162.000									.3030						
165.000											-.6590	-.4250	-.3750	-.2120	-.0580
169.000									.2610						
172.000							.9750								
180.000	1.3910	.8380	.1240	-.0950	.0630	.8110			.5170		-.6080	-.5390	-.3270	-.2540	-.0560

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1050							.0100		-.0700
40.000	.0840	.1550		.0080	-.0450	-.3180	-.1960			-.1240

AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBN844)

MACH (4) = 1.246 ALPHAT(8) = 6.030

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000		-.1040	-.1730	-.1640	-.0690	-.1200	-.2010	-.2350		
90.000		-.0670	-.1160	.0030	-.1170	-.1290	-.2240	-.2310		
105.000				.0540	-.0510	-.1630	-.2330	-.2440		
110.000									-.2680	
120.000		-.0530	.0880	.2560	-.0340	-.2740	-.2180	-.1780	-.2300	
135.000				.4440	.2440	-.2290	-.1570	-.1400		
150.000		-.0420	.1440	.2780	.2420	-.0880	-.1030	-.1540		
165.000		-.0400		.2770	.3090	.0260	-.0550	-.2920		
180.000		-.0400	.1040	.2580						

MACH (4) = 1.246 ALPHAT(9) = 8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/L9	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3860	.2390	.0000	-.1490	.1990	-.1280			-.2100		.0990	.0640	.0030	-.0380	-.0070
20.000			-.3170	-.2480	.1380	-.1430			-.2160		.0820				
40.000			-.0370	-.2830	.1140	-.1810			-.2410		.0950	.0130	-.0290	-.0630	-.0100
55.000			.1980	-.2490	.1140	-.0960			-.0910		.0100				
70.000			.3600	-.1860	-.0320	-.0700			.0440		-.1150	-.2560	-.2650	-.1960	-.1480
90.000		.9460	.3500	-.1690	-.1010	-.0280			.1160		-.1680	-.3920	-.2980	-.2210	-.1550
120.000			.2580	-.1690	-.0520	.2820			.1920		-.2850	-.4960	-.3630	-.2260	-.1130
142.000										-.4960					
150.000			.2030	-.1970	.0040	.6190			.4070		-.4600	-.5100	-.3990	-.2050	-.0640
157.000								.6720							
162.000									.2900						
165.000											-.6750	-.4440	-.3880	-.2010	-.0550
169.000									.2410						
172.000							.9700								
180.000	1.3860	.7920	.0940	-.1250	.0200	.7680			.4940		-.6260	-.5610	-.3440	-.2330	-.0500

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.1210							.0120		-.0670
40.000	.1000	.1700		.0510	-.0280	-.2920	-.1740			-.1100
70.000		-.1080	-.1980	-.2160	-.1130	-.1320	-.2100	-.2580		
90.000		-.0750	-.1430	-.0210	-.1160	-.1610	-.2380	-.2540		
105.000				.0520	-.0600	-.1910	-.2490	-.2640		
110.000									-.2830	
120.000		-.0480	.0870	.2360	-.0200	-.2830	-.2460	-.1890	-.2410	

AMES 11-707 IA9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

MACH (4) = 1.246 ALPHAT(9) = 8.010

SECTION (1)ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0310		.2690	.2570	.0080	-.0790	-.2960		
180.000		-.0310	.0980	.2340						

AMES 11-7X7 IA9 C2A + S3 + T9 ORBITER BASE (RBMC01) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = 1.500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = .601 ALPHAT(1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2940	-.3000	-.2670	-.2700	-.1850	-.2850	-.2260	-.2370	-.2750

MACH (1) = .598 ALPHAT(2) = -6.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2970	-.3030	-.2690	-.2690	-.1890	-.2900	-.2220	-.2315	-.2760

MACH (1) = .597 ALPHAT(3) = -4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2940	-.2670	-.2710	-.1950	-.2880	-.2240	-.2410	-.2730

MACH (1) = .599 ALPHAT(4) = -2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2870	-.2980	-.2590	-.2660	-.1860	-.2840	-.2180	-.2300	-.2690

MACH (1) = .597 ALPHAT(5) = -.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2830	-.2910	-.2600	-.2700	-.1960	-.2810	-.2210	-.2580	-.2700

MACH (1) = .598 ALPHAT(6) = 1.960

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2780	-.2840	-.2560	-.2670	-.1860	-.2730	-.2160	-.2325	-.2620

MACH (1) = .597 ALPHAT(7) = 3.930

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2700	-.2770	-.2540	-.2640	-.1810	-.2700	-.2200	-.2400	-.2650

MACH (1) = .600 ALPHAT(8) = 5.900

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2740	-.2830	-.2500	-.2670	-.1930	-.2700	-.2150	-.2490	-.2680

MACH (1) = .599 ALPHAT(9) = 7.950

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2740	-.2820	-.2520	-.2640	-.2040	-.2690	[illegible]	-.2410	-.2660

MACH (2) = .905 ALPHAT(1) = -8.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3390	-.3110	-.3090	-.2090	-.3400	-.2880	-.2740	-.3[illegible]

AMES 11-7D7 IA9 02A + S3 + T9 ORBITER BASE (RBHC01)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .899 ALPHAT(2) = -5.960

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3220	-.2990	-.2925	-.2020	-.3260	-.2580	-.2610	-.2970

MACH (2) = .898 ALPHAT(3) = -4.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3150	-.3220	-.2960	-.2890	-.2080	-.3170	-.2590	-.2550	-.2860

MACH (2) = .902 ALPHAT(4) = -1.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3120	-.2870	-.2950	-.2150	-.3280	-.2640	-.2550	-.2900

MACH (2) = .902 ALPHAT(5) = .030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3020	-.3080	-.2820	-.2880	-.2230	-	-.2600	-.2560	-.2890

MACH (2) = .901 ALPHAT(6) = 2.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3140	-.2870	-.2910	-.2290	-.3050	-.2680	-.2620	-.2950

MACH (2) = .899 ALPHAT(7) = 4.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3170	-.3200	-.2920	-.3020	-.2280	-.3050	-.2570	-.2570	-.2940

MACH (2) = .901 ALPHAT(8) = 6.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3180	-.3200	-.2940	-.3050	-.2350	-.3090	-.2610	-.2610	-.3090

MACH (2) = .902 ALPHAT(9) = 8.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3440	-.3140	-.3280	-.2560	-.3350	-.2740	-.2990	-.3270

MACH (2) = .901 ALPHAT(10) = 10.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3350	-.3090	-.3280	-.2560	-.3340	-.2800	-.2800	-.3240

MACH (3) = 1.104 ALPHAT(1) = -8.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3980	-.4080	-.3720	-.3670	-.2900	-.4160	-.3410	-.3430	-.3670

MACH (3) = 1.101 ALPHAT(2) = -5.995

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3960	-.3610	-.3650	-.2940	-.4100	-.3360	-.3330	-.3570

MACH (3) = 1.104 ALPHAT(3) = -3.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.4010	-.3650	-.3670	-.2850	-.4070	-.3500	-.3390	-.3540

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC01)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.102 ALPHAT(4) = -2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3960	-.3570	-.3650	-.2880	-.3890	-.3480	-.3450	-.3430

MACH (3) = 1.102 ALPHAT(5) = .030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3900	-.3630	-.3630	-.3020	-.3770	-.3490	-.3560	-.3540

MACH (3) = 1.101 ALPHAT(6) = 2.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3880	-.3660	-.3640	-.3050	-.3790	-.3480	-.3510	-.3620

MACH (3) = 1.102 ALPHAT(7) = 4.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3860	-.3680	-.3700	-.2980	-.3780	-.3390	-.3580	-.3580

MACH (3) = 1.105 ALPHAT(8) = 5.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3930	-.3650	-.3560	-.3100	-.3900	-.3480	-.3540	-.3540

MACH (3) = 1.102 ALPHAT(9) = 7.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4010	-.4100	-.3760	-.3740	-.3210	-.3930	-.3720	-.3620	-.3740

MACH (3) = 1.102 ALPHAT(10) = 9.950

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4090	-.4150	-.3860	-.3950	-.3370	-.4040	-.3720	-.3720	-.3980

MACH (4) = 1.250 ALPHAT(1) = -8.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3440	-.3130	-.3050	-.2430	-.3550	-.2930	-.2960	-.3220

MACH (4) = 1.252 ALPHAT(2) = -5.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3480	-.3140	-.3090	-.2460	-.3570	-.2870	-.2920	-.3160

MACH (4) = 1.248 ALPHAT(3) = -4.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3420	-.3110	-.3060	-.2500	-.3510	-.2990	-.2990	-.3160

MACH (4) = 1.250 ALPHAT(4) = -1.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3420	-.3160	-.3070	-.2560	-.3390	-.2960	-.3110	-.3220

MACH (4) = 1.249 ALPHAT(5) = .040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3420	-.3190	-.3170	-.2620	-.3350	-.2990	-.3110	-.3170

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC01)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (4) = 1.247 ALPHAT(6) = 2.030

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3330	-.3370	-.3150	-.3110	-.2660	-.3220	-.2980	-.3000	-.3160

MACH (4) = 1.248 ALPHAT(7) = 4.040

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3320	-.3360	-.3170	-.3170	-.2730	-.3280	-.3010	-.3010	-.3020

MACH (4) = 1.247 ALPHAT(8) = 6.010

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3380	-.3380	-.3190	-.3210	-.2830	-.3280	-.3060	-.3080	-.3210

MACH (4) = 1.247 ALPHAT(9) = 8.010

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3400	-.3410	-.3270	-.3270	-.2900	-.3340	-.3090	-.3150	-.3270

MACH (4) = 1.245 ALPHAT(10) = 9.960

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3450	-.3500	-.3310	-.3300	-.2910	-.3380	-.2920	-.3140	-.3310

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC02) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .598 ALPHAT(1) = -9.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2910	-.3020	-.2620	-.2640	-.1920	-.2820	-.2180	-.2190	-.2690

MACH (1) = .598 ALPHAT(2) = -6.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2970	-.2590	-.2680	-.1950	-.2840	-.2240	-.2320	-.2710

MACH (1) = .599 ALPHAT(3) = -3.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2820	-.2900	-.2590	-.2600	-.1910	-.2850	-.2210	-.2290	-.2570

MACH (1) = .598 ALPHAT(4) = -1.910

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2740	-.2850	-.2540	-.2650	-.1860	-.2710	-.2240	-.2290	-.2710

MACH (1) = .599 ALPHAT(5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2750	-.2850	-.2520	-.2640	-.1810	-.2840	-.2240	-.2300	-.2620

MACH (1) = .599 ALPHAT(6) = 2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2710	-.2840	-.2490	-.2590	-.1860	-.2790	-.2160	-.2150	-.2650

MACH (1) = .597 ALPHAT(7) = 4.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2670	-.2750	-.2460	-.2540	-.1830	-.2640	-.2170	-.2350	-.2530

MACH (1) = .599 ALPHAT(8) = 6.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2760	-.2780	-.2480	-.2580	-.1920	-.2700	-.2110	-.2360	-.2640

MACH (1) = .597 ALPHAT(9) = 8.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2730	-.2830	-.2540	-.2670	-.1970	-.2680	-.2210	-.2470	-.2620

MACH (2) = .903 ALPHAT(1) = -8.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3300	-.3090	-.3170	-.2170	-.3380	-.2780	-.2750	-.3170

AMES 11-7X7 IA9 C2A + S3 + T9 ORBITER BASE (RBMC02)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .901 ALPHAT(2) = -6.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3280	-.3030	-.3050	-.2080	-.3280	-.2680	-.2590	-.3010

MACH (2) = .900 ALPHAT(3) = -4.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3220	-.2960	-.2900	-.2190	-.3260	-.2660	-.2590	-.2940

MACH (2) = .896 ALPHAT(4) = -1.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3030	-.3170	-.2880	-.2870	-.2150	-.3200	-.2580	-.2460	-.2890

MACH (2) = .894 ALPHAT(5) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3000	-.3060	-.2800	-.2890	-.2170	-.3120	-.2600	-.2540	-.2890

MACH (2) = .894 ALPHAT(6) = 2.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3020	-.3040	-.2850	-.2890	-.2170	-.3050	-.2550	-.2520	-.2910

MACH (2) = .905 ALPHAT(7) = 4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3030	-.3110	-.2850	-.2970	-.2230	-.3110	-.2490	-.2660	-.2910

MACH (2) = .897 ALPHAT(8) = 6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3090	-.3180	-.2880	-.2880	-.2210	-.3040	-.2540	-.2590	-.2960

MACH (2) = .900 ALPHAT(9) = 8.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3150	-.3210	-.2910	-.3050	-.2370	-.3130	-.2590	-.2650	-.3050

MACH (3) = 1.102 ALPHAT(1) = -8.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.4030	-.3670	-.3530	-.2690	-.4160	-.3440	-.3370	-.3690

MACH (3) = 1.103 ALPHAT(2) = -6.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3960	-.3660	-.3590	-.2830	-.4070	-.3410	-.3260	-.3680

MACH (3) = 1.102 ALPHAT(3) = -4.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4010	-.3670	-.3590	-.2840	-.4020	-.3410	-.3260	-.3690

MACH (3) = 1.102 ALPHAT(4) = -1.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.3950	-.3580	-.3580	-.2840	-.3970	-.3450	-.3260	-.3660

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC02)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.102 ALPHAT(5) = -.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3900	-.3620	-.3610	-.2890	-.3780	-.3450	-.3430	-.3580

MACH (3) = 1.102 ALPHAT(6) = 1.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3900	-.3620	-.3610	-.3000	-.3750	-.3480	-.3510	-.3610

MACH (3) = 1.102 ALPHAT(7) = 3.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3790	-.3840	-.3600	-.3600	-.3020	-.3780	-.3420	-.3520	-.3630

MACH (3) = 1.102 ALPHAT(8) = 5.970

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3790	-.3790	-.3580	-.3590	-.3090	-.3740	-.3470	-.3550	-.3610

MACH (3) = 1.101 ALPHAT(9) = 7.940

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3950	-.3650	-.3610	-.3160	-.3890	-.3610	-.3540	-.3670

MACH (4) = 1.249 ALPHAT(1) = -8.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3540	-.3620	-.3310	-.3230	-.2640	-.3700	-.3240	-.3350	-.3480

MACH (4) = 1.248 ALPHAT(2) = -6.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3420	-.3120	-.3030	-.2500	-.3490	-.2970	-.3040	-.3240

MACH (4) = 1.249 ALPHAT(3) = -3.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3390	-.3140	-.3010	-.2530	-.3450	-.2970	-.2930	-.3190

MACH (4) = 1.245 ALPHAT(4) = -1.950

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3360	-.3090	-.3010	-.2520	-.3320	-.2970	-.2980	-.3130

MACH (4) = 1.246 ALPHAT(5) = .040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3330	-.3130	-.3110	-.2630	-.3270	-.2950	-.2930	-.3150

MACH (4) = 1.244 ALPHAT(6) = 2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3360	-.3150	-.3130	-.2690	-.3260	-.2960	-.2950	-.3120

MACH (4) = 1.245 ALPHAT(7) = 3.970

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3350	-.3130	-.3150	-.2740	-.3260	-.3010	-.3010	-.3150

AMES 11-7?7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC02)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (4) = 1.245 ALPHAT(8) = 5.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3350	-.3180	-.3160	-.2840	-.3260	-.3060	-.3060	-.3210

MACH (4) = 1.247 ALPHAT(9) = 7.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3370	-.3210	-.3230	-.2890	-.3300	-.3060	-.3120	-.3110

MACH (5 = 1.401 ALPHAT(1) = -8.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2920	-.3000	-.2830	-.2730	-.2200	-.2940	-.2860	-.3190	-.3010

MACH (5) = 1.396 ALPHAT(2) = -5.970

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2950	-.3030	-.2840	-.2700	-.2280	-.2960	-.2770	-.3160	-.2950

MACH (5) = 1.396 ALPHAT(3) = -3.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2960	-.3040	-.2840	-.2700	-.2310	-.2970	-.2740	-.3140	-.2980

MACH (5) = 1.396 ALPHAT(4) = -1.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2970	-.3030	-.2860	-.2740	-.2380	-.2960	-.2710	-.3080	-.3010

MACH (5) = 1.398 ALPHAT(5) = .040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2980	-.3050	-.2860	-.2760	-.2430	-.2960	-.2750	-.3060	-.3040

MACH (5) = 1.393 ALPHAT(6) = 2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3030	-.3090	-.2950	-.2870	-.2550	-.2990	-.2760	-.3030	-.3040

MACH (5) = 1.394 ALPHAT(7) = 3.960

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3060	-.3110	-.3010	-.2940	-.2630	-.3090	-.2870	-.3110	-.3150

MACH (5) = 1.396 ALPHAT(8) = 6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3100	-.3090	-.3050	-.3010	-.2670	-.3070	-.2870	-.3150	-.3130

MACH (5) = 1.391 ALPHAT(9) = 7.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3180	-.3060	-.3040	-.2670	-.3120	-.2870	-.3120	-.3140

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC03) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3210	-.3330	-.2900	-.2720	-.2400	-.3130	-.2920	-.3560	-.3290

MACH (1) = .598 BETAT (2) = -6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3150	-.3250	-.2800	-.2730	-.2250	-.3070	-.2840	-.3270	-.3000

MACH (1) = .596 BETAT (3) = -4.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3030	-.3150	-.2730	-.2740	-.2150	-.3020	-.2560	-.2850	-.2780

MACH (1) = .598 BETAT (4) = -2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2970	-.3090	-.2700	-.2720	-.2060	-.3020	-.2620	-.2520	-.2780

MACH (1) = .598 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2860	-.2910	-.2560	-.2620	-.1950	-.2800	-.2250	-.2370	-.2740

MACH (1) = .598 BETAT (6) = 2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2910	-.2940	-.2590	-.2600	-.1960	-.2710	-.2180	-.2440	-.2650

MACH (1) = .598 BETAT (7) = 4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2870	-.3000	-.2680	-.2570	-.2130	-.2710	-.2320	-.2430	-.2690

MACH (1) = .598 BETAT (8) = 6.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2890	-.2960	-.2680	-.2560	-.2150	-.2770	-.2340	-.2600	-.2820

MACH (1) = .599 BETAT (9) = 8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2960	-.3090	-.2740	-.2610	-.2180	-.2950	-.2450	-.2620	-.2780

MACH (2) = .901 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3800	-.3920	-.3560	-.3420	-.3090	-.3940	-.3380	-.3720	-.3660

AMES 11-70? IA9 02A + S3 + T9 ORBITER BASE (RBMC03)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (2) = -6.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3630	-.3740	-.3350	-.3300	-.3030	-.3910	-.3330	-.3230	-.3460

MACH (2) = .900 BETAT (3) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3530	-.3240	-.3260	-.2640	-.3860	-.3150	-.2990	-.3230

MACH (2) = .898 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3320	-.3120	-.3120	-.2220	-.3500	-.2950	-.2710	-.3060

MACH (2) = .899 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3310	-.3070	-.3110	-.2140	-.3250	-.2730	-.2900	-.3040

MACH (2) = .899 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3410	-.3160	-.3190	-.2590	-.3280	-.2820	-.2960	-.3140

MACH (2) = .901 BETAT (7) = 6.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3570	-.3410	-.3360	-.2890	-.3570	-.2970	-.3180	-.3250

MACH (2) = .900 BETAT (8) = 8.270

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3680	-.3670	-.3420	-.3420	-.2870	-.3780	-.3360	-.3340	-.3310

MACH (3) = 1.101 BETAT (1) = -8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4110	-.4210	-.3890	-.3720	-.3190	-.4210	-.4250	-.5190	-.4030

MACH (3) = 1.100 BETAT (2) = -6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4050	-.4120	-.3760	-.3640	-.3210	-.4310	-.3940	-.4540	-.4

MACH (3) = 1.102 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4030	-.4070	-.3680	-.3670	-.3020	-.4360	-.3610	-.4	-.3950

MACH (3) = 1.100 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.	8.	9.
A									
.000	-.3940	-.4050	-.3690	-.3690	-.2800	-.4210	-.3550	-.3721	-.3

MACH (3) = 1.099 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.	6.	7.	8.	9.
A									
.000	-.3980	-.4010	-.3710	-.3570	-.2780	-.4110	-.3360	-.3	-.3

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC03)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (6) = 2.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.4040	-.3720	-.3530	-.2900	-.3960	-.3280	-.3390	-.3720

MACH (3) = 1.100 BETAT (7) = 4.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.4070	-.3780	-.3580	-.3020	-.4030	-.3320	-.3490	-.3830

MACH (3) = 1.103 BETAT (8) = 6.240

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3990	-.4030	-.3720	-.3530	-.3110	-.3980	-.3380	-.3600	-.3920

MACH (3) = 1.101 BETAT (9) = 7.800

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4090	-.4120	-.3760	-.3660	-.3150	-.4060	-.3510	-.3670	-.3980

MACH (4) = 1.248 BETAT (1) = -8.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3430	-.3200	-.3020	-.2560	-.3510	-.3440	-.4250	-.3460

MACH (4) = 1.249 BETAT (2) = -6.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3460	-.3180	-.2940	-.2600	-.3520	-.3440	-.4080	-.3430

MACH (4) = 1.245 BETAT (3) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3410	-.3120	-.3020	-.2600	-.3590	-.3240	-.3930	-.3460

MACH (4) = 1.246 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3450	-.3150	-.3090	-.2580	-.3470	-.3090	-.3490	-.3350

MACH (4) = 1.247 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3370	-.3050	-.2950	-.2440	-.3390	-.2770	-.2780	-.3140

MACH (4) = 1.247 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3180	-.3270	-.3000	-.2850	-.2490	-.3220	-.2740	-.2810	-.3170

MACH (4) = 1.248 BETAT (7) = 6.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3210	-.3280	-.3050	-.2840	-.2440	-.3180	-.2720	-.2720	-.3220

MACH (4) = 1.251 BETAT (8) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3360	-.3130	-.3010	-.2450	-.3310	-.2750	-.3180	-.3270

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC04) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8495 INCHES YMRP = .0000 INCHES
BREF = 39.8495 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (1) = -8.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3350	-.2960	-.2800	-.2380	-.3020	-.2890	-.3700	-.3230

MACH (1) = .597 BETAT (2) = -6.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3060	-.3210	-.2750	-.2690	-.2190	-.3010	-.2680	-.3110	-.2990

MACH (1) = .599 BETAT (3) = -4.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2980	-.3070	-.2700	-.2640	-.2150	-.3040	-.2510	-.2730	-.2860

MACH (1) = .599 BETAT (4) = -2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2890	-.2970	-.2650	-.2680	-.1990	-.2910	-.2470	-.2540	-.2730

MACH (1) = .600 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2890	-.2980	-.2590	-.2680	-.1920	-.2890	-.2230	-.2360	-.2680

MACH (1) = .599 BETAT (6) = 2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2830	-.2650	-.2600	-.2570	-.2000	-.2740	-.2240	-.2360	-.2670

MACH (1) = .599 BETAT (7) = 4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2840	-.2870	-.2650	-.2590	-.2060	-.2750	-.2240	-.2390	-.2710

MACH (1) = .600 BETAT (8) = 6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2910	-.2680	-.2680	-.2170	-.2790	-.2380	-.2510	-.2710

MACH (1) = .601 BETAT (9) = 8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2970	-.3070	-.2760	-.2750	-.2090	-.2980	-.253	-.276	-.2930

MACH (2) = .899 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.	9.000
A									
.000	-.3750	-.3840	-.3430	-.3310	-.3020	-.3990	-.378	-.352	-.3570

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC04)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .897 BETAT (2) = -6.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3610	-.3610	-.3260	-.3240	-.2930	-.3730	-.3140	-.3120	-.3330

MACH (2) = .902 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3450	-.3470	-.3220	-.3190	-.2700	-.3660	-.3110	-.2940	-.3260

MACH (2) = .900 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3310	-.3020	-.3070	-.2240	-.3500	-.2810	-.2630	-.3060

MACH (2) = .902 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3350	-.3130	-.3110	-.2290	-.3270	-.2670	-.2810	-.3110

MACH (2) = .903 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3430	-.3370	-.3170	-.3170	-.2660	-.3350	-.2790	-.3000	-.3200

MACH (2) = .900 BETAT (7) = 6.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3610	-.3680	-.3450	-.3330	-.2830	-.3480	-.3010	-.3200	-.3320

MACH (2) = .898 BETAT (8) = 8.240

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3650	-.3700	-.3360	-.3360	-.2760	-.3720	-.3120	-.3250	-.3280

MACH (3) = 1.100 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3970	-.4080	-.3740	-.3670	-.3150	-.4110	-.4050	-.4680	-.4100

MACH (3) = 1.099 BETAT (2) = -6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3970	-.3990	-.3720	-.3630	-.3170	-.4230	-.3810	-.4290	-.3980

MACH (3) = 1.101 BETAT (3) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4020	-.4040	-.3640	-.3730	-.3080	-.4370	-.3650	-.3960	-.3920

MACH (3) = 1.101 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4060	-.3650	-.3700	-.2850	-.4370	-.3610	-.3620	-.3930

MACH (3) = 1.099 BETAT (5) = 2.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3980	-.3710	-.3590	-.2870	-.3960	-.3260	-.3310	-.3720

AMES 11-707 IA9 OEA + S3 + T9 ORBITER BASE (RBMC04)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.099 BETAT (6) = 4.153

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3990	-.3980	-.3710	-.3630	-.3080	-.3950	-.3310	-.3410	-.3930

MACH (3) = 1.100 BETAT (7) = 6.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3980	-.4000	-.3780	-.3610	-.3070	-.3860	-.3320	-.3510	-.3940

MACH (3) = 1.096 BETAT (8) = 8.290

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4050	-.4030	-.3820	-.3710	-.3060	-.3920	-.3360	-.3610	-.3880

MACH (4) = 1.249 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3340	-.3090	-.2970	-.2540	-.3440	-.3390	-.3930	-.3430

MACH (4) = 1.246 BETAT (2) = -6.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3350	-.3060	-.2990	-.2570	-.3510	-.3370	-.3830	-.3370

MACH (4) = 1.244 BETAT (3) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3330	-.3010	-.2970	-.2560	-.3520	-.3160	-.355.	-.327.

MACH (4) = 1.247 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3370	-.3100	-.3160	-.2510	-.3450	-.3060	-.3410	-.332.

MACH (4) = 1.245 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3270	-.3060	-.2940	-.2420	-.3320	-.2660	-.2650	-.3[illegible]

MACH (4) = 1.248 BETAT (6) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3320	-.3110	-.2900	-.2540	-.3220	-.2680	-.2690	-.332[illegible]

MACH (4) = 1.245 BETAT (7) = 6.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3320	-.3110	-.2930	-.2480	-.3160	-.264[illegible]	[illegible]	[illegible]

MACH (4) = 1.245 BETAT (8) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3210	-.3050	-.2850	-.2350	-.31[illegible]	-.25[illegible]	[illegible]	[illegible]

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC05) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .500 BETAT (1) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2870	-.2880	-.2580	-.2680	-.1950	-.2820	-.2180	-.2260	-.2640

MACH (1) = .598 BETAT (2) = 4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2870	-.2870	-.2630	-.2680	-.1980	-.2800	-.2210	-.2440	-.2660

MACH (1) = .599 BETAT (3) = 6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2950	-.2940	-.2730	-.2690	-.2090	-.2820	-.2340	-.2310	-.2830

MACH (1) = .599 BETAT (4) = 8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2990	-.3100	-.2790	-.2820	-.2090	-.2970	-.2490	-.2550	-.2810

MACH (2) = .903 BETAT (1) = -8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3600	-.3650	-.3260	-.3330	-.2930	-.3790	-.3230	-.3200	-.3460

MACH (2) = .901 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3490	-.3570	-.3160	-.3230	-.2850	-.3710	-.3080	-.3050	-.3250

MACH (2) = .902 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3500	-.3130	-.3150	-.2640	-.3590	-.3010	-.2760	-.3170

MACH (2) = .901 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3330	-.3060	-.3000	-.2340	-.3420	-.2850	-.2550	-.3020

MACH (2) = .903 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3230	-.3030	-.2950	-.2290	-.3180	-.2590	-.2720	-.3040

MACH (2) = .900 BETAT (6) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3310	-.3110	-.3030	-.2610	-.3270	-.2670	-.2830	-.3080

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC05)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .904 BETAT (7) = 6.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3270	-.3110	-.3090	-.2710	-.3340	-.2880	-.2950	-.3190

MACH (2) = .899 BETAT (8) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3560	-.3620	-.3330	-.3350	-.2730	-.3690	-.3110	-.3250	-.3280

MACH (3) = 1.100 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3950	-.3680	-.3660	-.3160	-.4060	-.3810	-.4340	-.3900

MACH (3) = 1.097 BETAT (2) = -6.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3970	-.3600	-.3590	-.3070	-.4200	-.3650	-.3970	-.3810

MACH (3) = 1.101 BETAT (3) = -4.080

TAP NO	1.000	2.000	[illegible]	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4020	-.3(	-.3780	-.3100	-.4220	-.3680	-.3890	-.3740

MACH (3) = 1.099 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4040	-.3660	-.3740	-.3000	-.4150	-.3680	-.3660	-.3710

MACH (3) = 1.101 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3940	-.3690	-.3600	-.2990	-.3910	-.3310	-.3390	-.3660

MACH (3) = 1.102 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3920	-.3680	-.3570	-.3030	-.3890	-.3380	-.3460	-.3710

MACH (3) = 1.100 BETAT (7) = 6.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3880	-.3650	-.3560	-.2910	-.3710	-.3330	-.3440	-.3720

MACH (3) = 1.100 BETAT (8) = 8.270

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3820	-.3830	-.3700	-.3620	-.3030	-.3680	-.3250	-.3600	-.3770

MACH (4) = 1.245 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3350	-.3100	-.3050	-.2620	-.3440	-.3370	-.3980	-.3450

MACH (4) = 1.245 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3290	-.3020	-.3010	-.2540	-.3470	-.3310	-.3700	-.3290

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC05)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (4) = 1.245 BETAT (3) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3310	-.3020	-.3000	-.2570	-.3520	-.3180	-.3360	-.3230

MACH (4) = 1.246 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3330	-.3030	-.3060	-.2590	-.3430	-.3040	-.3380	-.3190

MACH (4) = 1.243 BETAT (5) = 2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3200	-.3270	-.3040	-.2930	-.2510	-.3190	-.2720	-.2670	-.3050

MACH (4) = 1.241 BETAT (6) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3210	-.3260	-.3060	-.2890	-.2420	-.3150	-.2590	-.2580	-.3030

MACH (4) = 1.244 BETAT (7) = 6.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3180	-.3220	-.3080	-.2930	-.2370	-.3070	-.2520	-.2820	-.3150

MACH (4) = 1.247 BETAT (8) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3110	-.3150	-.3080	-.2900	-.2420	-.3050	-.2560	-.2970	-.3150

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC06) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3050	-.3150	-.2690	-.2830	-.2150	-.2950	-.2440	-.2990	-.2930

MACH (1) = .599 BETAT (2) = -6.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2920	-.3070	-.2610	-.2750	-.2010	-.2880	-.2530	-.2580	-.2770

MACH (1) = .598 BETAT (3) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2800	-.3000	-.2520	-.2710	-.2020	-.2800	-.2310	-.2350	-.2700

MACH (1) = .600 BETAT (4) = -2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2790	-.2860	-.2510	-.2710	-.1990	-.2850	-.2250	-.2270	-.2650

MACH (1) = .600 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2790	-.2870	-.2580	-.2720	-.1900	-.2870	-.2260	-.2240	-.2680

MACH (1) = .601 BETAT (6) = 2.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2840	-.2860	-.2620	-.2720	-.1870	-.2850	-.2300	-.2440	-.2680

MACH (1) = .601 BETAT (7) = 4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2820	-.2910	-.2660	-.2710	-.1950	-.2870	-.2240	-.2450	-.2700

MACH (1) = .599 BETAT (8) = 6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2890	-.2980	-.2670	-.2710	-.1910	-.2900	-.2400	-.2480	-.2770

MACH (1) = .600 BETAT (9) = 8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3010	-.3110	-.2790	-.2870	-.2040	-.3090	-.2600	-.2630	-.2960

MACH (2) = .904 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3640	-.3780	-.3370	-.3380	-.3030	-.3820	-.3200	-.3100	-.3410

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC06)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (2) = -6.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3430	-.3430	-.3070	-.3260	-.2760	-.3580	-.3060	-.2950	-.3230

MACH (2) = .902 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3300	-.3360	-.2990	-.3140	-.2670	-.3420	-.2940	-.2860	-.3080

MACH (2) = .901 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3170	-.3290	-.2920	-.2830	-.2280	-.3120	-.2640	-.2590	-.3040

MACH (2) = .903 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3120	-.3220	-.2930	-.2960	-.2170	-.3250	-.2550	-.2640	-.2940

MACH (2) = .903 BETAT (6) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3260	-.3290	-.3050	-.3100	-.2440	-.3190	-.2730	-.2890	-.3110

MACH (2) = .907 BETAT (7) = 6.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3250	-.3300	-.3140	-.3120	-.2630	-.3440	-.2910	-.3120	-.3220

MACH (2) = .904 BETAT (8) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3510	-.3600	-.3400	-.3340	-.2890	-.3630	-.3170	-.3220	-.3390

MACH (3) = 1.099 BETAT (1) = -8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3950	-.3990	-.3690	-.3730	-.3180	-.4170	-.3760	-.4250	-.3930

MACH (3) = 1.100 BETAT (2) = -6.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3900	-.3950	-.3680	-.3720	-.3190	-.4310	-.3650	-.3930	-.3830

MACH (3) = 1.100 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3940	-.3940	-.3670	-.3800	-.3140	-.4180	-.3650	-.3760	-.3700

MACH (3) = 1.099 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3890	-.3940	-.3630	-.3710	-.3100	-.3970	-.3650	-.3640	-.3640

MACH (3) = 1.101 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3860	-.3890	-.3650	-.3640	-.2950	-.3860	-.3480	-.3480	-.3490

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC06)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (6) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3870	-.3670	-.3690	-.3040	-.3810	-.3370	-.3450	-.3670

MACH (3) = 1.100 BETAT (7) = 6.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3810	-.3630	-.3660	-.2980	-.3810	-.3220	-.3410	-.3770

MACH (3) = 1.101 BETAT (8) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3860	-.3690	-.3650	-.3080	-.3810	-.3280	-.3450	-.3770

MACH (4) = 1.248 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3300	-.3080	-.3040	-.2600	-.3390	-.3280	-.3940	-.3440

MACH (4) = 1.248 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3310	-.3060	-.3100	-.2620	-.3510	-.3290	-.3600	-.3350

MACH (4) = 1.248 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3300	-.2990	-.3070	-.2620	-.3470	-.3140	-.3400	-.3210

MACH (4) = 1.246 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3300	-.3020	-.3060	-.2640	-.3350	-.3060	-.3340	-.3170

MACH (4) = 1.248 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3200	-.3230	-.3040	-.2940	-.2520	-.3130	-.2710	-.2720	-.3070

MACH (4) = 1.247 BETAT (6) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3150	-.3210	-.3000	-.2860	-.2390	-.3130	-.2660	-.2680	-.3120

MACH (4) = 1.248 BETAT (7) = 6.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3170	-.3210	-.3080	-.2920	-.2460	-.3080	-.2580	-.2820	-.3220

MACH (4) = 1.248 BETAT (8) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3170	-.3210	-.3110	-.3000	-.2500	-.3140	-.2510	-.3110	-.3270

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC07) (26 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (1) = -8.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3030	-.3170	-.2660	-.2890	-.2150	-.2980	-.2420	-.2890	-.2910

MACH (1) = .598 BETAT (2) = -6.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2890	-.3080	-.2610	-.2740	-.1990	-.2860	-.2370	-.2660	-.2790

MACH (1) = .598 BETAT (3) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2950	-.3010	-.2620	-.2760	-.2050	-.2830	-.2350	-.2510	-.2750

MACH (1) = .595 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2820	-.2880	-.2490	-.2640	-.1910	-.2820	-.2100	-.2390	-.2680

MACH (1) = .597 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2800	-.2870	-.2610	-.2630	-.1830	-.2860	-.2210	-.2250	-.2610

MACH (1) = .597 BETAT (6) = 2.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2820	-.2840	-.2600	-.2660	-.1910	-.2790	-.2370	-.2410	-.2640

MACH (1) = .599 BETAT (7) = 4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2820	-.2920	-.2660	-.2750	-.1960	-.2850	-.2350	-.2430	-.2710

MACH (1) = .597 BETAT (8) = 6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2970	-.3030	-.2760	-.2810	-.1990	-.3000	-.2520	-.2570	-.2820

MACH (1) = .597 BETAT (9) = 8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3000	-.3110	-.2770	-.2890	-.1920	-.3070	-.2720	-.2670	-.2960

MACH (2) = .900 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3490	-.3560	-.3260	-.3320	-.2600	-.3570	-.3040	-.3110	-.339

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC07)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .899 BETAT (2) = -6.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3470	-.3470	-.3130	-.3240	-.2850	-.3560	-.3010	-.2880	-.3230

MACH (2) = .899 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3380	-.3060	-.3140	-.2600	-.3330	-.2870	-.2840	-.3120

MACH (2) = .901 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3130	-.3180	-.2910	-.2900	-.2320	-.3050	-.2580	-.2660	-.3000

MACH (2) = .901 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3050	-.3100	-.2840	-.2880	-.2210	-.3210	-.2580	-.2480	-.2830

MACH (2) = .901 BETAT (6) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3090	-.3180	-.2970	-.2870	-.2140	-.3120	-.2610	-.2610	-.2860

MACH (2) = .906 BETAT (7) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3260	-.3110	-.3160	-.2410	-.3290	-.2780	-.3020	-.3180

MACH (2) = .901 BETAT (8) = 6.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3360	-.3190	-.3190	-.2580	-.3360	-.2800	-.2970	-.3050

MACH (2) = .901 BETAT (9) = 8.220

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3480	-.3340	-.3350	-.2780	-.3530	-.2990	-.3180	-.3300

MACH (3) = 1.100 BETAT (1) = -8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.3970	-.3710	-.3810	-.3270	-.4240	-.3750	-.4220	-.3980

MACH (3) = 1.099 BETAT (2) = -6.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3890	-.3650	-.3790	-.3200	-.4270	-.3650	-.3750	-.3890

MACH (3) = 1.098 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3910	-.3630	-.3810	-.3150	-.4120	-.3670	-.3650	-.3660

MACH (3) = 1.101 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3920	-.3650	-.3640	-.3140	-.3880	-.3640	-.3620	-.3590

AMES 11-7X7 IA9 OEA + S3 + T9 ORBITER BASE (RBNC07)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.099 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3640	-.3630	-.3600	-.3580	-.2880	-.3750	-.3430	-.3410	-.3480

MACH (3) = 1.100 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3670	-.3930	-.3720	-.3690	-.3160	-.3850	-.3430	-.3510	-.3640

MACH (3) = 1.101 BETAT (7) = 6.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3680	-.3910	-.3670	-.3690	-.3110	-.3860	-.3340	-.3410	-.3730

MACH (3) = 1.101 BETAT (8) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3670	-.3920	-.3680	-.3700	-.3140	-.3830	-.3290	-.3370	-.3820

MACH (4) = 1.249 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3310	-.3110	-.3130	-.2630	-.3120	-.3250	-.3650	-.3460

MACH (4) = 1.248 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3290	-.3060	-.3130	-.2660	-.3450	-.3230	-.3780	-.3370

MACH (4) = 1.248 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3260	-.3000	-.3100	-.2650	-.3340	-.3070	-.3390	-.3220

MACH (4) = 1.247 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3200	-.3250	-.2990	-.3010	-.2670	-.3210	-.2950	-.2940	-.3120

MACH (4) = 1.247 BETAT (5) = 2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3190	-.2990	-.2910	-.2530	-.3050	-.2730	-.2740	-.2910

MACH (4) = 1.245 BETAT (6) = 4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3160	-.3010	-.2910	-.2500	-.3040	-.2630	-.2670	-.3060

MACH (4) = 1.246 BETAT (7) = 6.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3230	-.3090	-.3000	-.2520	-.3130	-.2610	-.2900	-.3200

MACH (4) = 1.247 BETAT (8) = 8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3220	-.3260	-.3150	-.3060	-.2570	-.3180	-.2600	-.2930	-.3260

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC07)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (5) = 1.395 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2950	-.2800	-.2840	-.2310	-.2850	-.2890	-.3450	-.3140

MACH (5) = 1.395 BETAT (2) = -6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2900	-.2930	-.2810	-.2830	-.2290	-.2860	-.2930	-.3460	-.3090

MACH (5) = 1.397 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2960	-.3020	-.2820	-.2860	-.2430	-.2900	-.2950	-.3450	-.3030

MACH (5) = 1.396 BETAT (4) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3020	-.3070	-.2900	-.2830	-.2450	-.2990	-.2810	-.3110	-.3020

MACH (5) = 1.394 BETAT (5) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2890	-.2940	-.2670	-.2770	-.2330	-.2870	-.2550	-.2800	-.2930

MACH (5) = 1.392 BETAT (6) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2840	-.2850	-.2860	-.2820	-.2220	-.2840	-.2340	-.2910	-.2950

AMES 11-7?7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC08) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5350 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2980	-.3120	-.2660	-.2850	-.2160	-.3030	-.2250	-.2730	-.2860

MACH (1) = .598 BETAT (2) = -6.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2900	-.2930	-.2590	-.2720	-.1990	-.2830	-.2270	-.2520	-.2780

MACH (1) = .596 BETAT (3) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2850	-.2940	-.2510	-.2740	-.1890	-.2830	-.2210	-.2440	-.2650

MACH (1) = .597 BETAT (4) = -2.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2750	-.2870	-.2550	-.2600	-.1880	-.2770	-.2150	-.2250	-.2630

MACH (1) = .598 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2710	-.2830	-.2510	-.2630	-.1810	-.2720	-.2170	-.2210	-.2620

MACH (1) = .599 BETAT (6) = 2.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2770	-.2860	-.2640	-.2660	-.1960	-.2770	-.2310	-.2340	-.2620

MACH (1) = .596 BETAT (7) = 4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2860	-.2980	-.2630	-.2700	-.1870	-.2860	-.2350	-.2360	-.2670

MACH (1) = .598 BETAT (8) = 6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.2910	-.2980	-.2700	-.2770	-.1860	-.3020	-.2530	-.2520	-.2920

MACH (1) = .599 BETAT (9) = 8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3030	-.3130	-.2840	-.2940	-.1800	-.3160	-.2530	-.2960	-.2980

MACH (2) = .902 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3550	-.3660	-.3280	-.3460	-.2820	-.3690	-.3040	-.3080	-.3330

AMES 11-7X7 IA9 OEA + S3 + T9 ORBITER BASE (RBMC08)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (2) = -6.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3430	-.3190	-.3370	-.2840	-.3590	-.3030	-.2890	-.3220

MACH (2) = .899 BETAT (3) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3300	-.2970	-.3140	-.2550	-.3370	-.2840	-.2790	-.3130

MACH (2) = .900 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3090	-.3100	-.2860	-.2870	-.2330	-.2880	-.2590	-.2690	-.2950

MACH (2) = .902 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3070	-.3160	-.2880	-.2940	-.2200	-.3130	-.2680	-.2680	-.2950

MACH (2) = .903 BETAT (6) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3290	-.3070	-.3140	-.2360	-.3230	-.2790	-.2960	-.3070

MACH (2) = .904 BETAT (7) = 6.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3450	-.3440	-.3160	-.3290	-.2640	-.3430	-.2850	-.3090	-.3240

MACH (2) = .901 BETAT (8) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3460	-.3540	-.3350	-.3320	-.2740	-.3420	-.3000	-.3000	-.3310

MACH (3) = 1.099 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3960	-.3720	-.3780	-.3190	-.4230	-.3670	-.4010	-.3870

MACH (3) = 1.100 BETAT (2) = -6.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3890	-.3650	-.3750	-.3190	-.4150	-.3550	-.3670	-.3720

MACH (3) = 1.100 BETAT (3) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3880	-.3670	-.3790	-.3220	-.3950	-.3620	-.3580	-.3540

MACH (3) = 1.099 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3870	-.3650	-.3740	-.3210	-.3850	-.3630	-.3650	-.3640

MACH (3) = 1.100 BETAT (5) = 2.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3860	-.3660	-.3670	-.3130	-.3740	-.3420	-.3570	-.3530

AMES 11-7D7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC08)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.097 BETAT (6) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3880	-.3730	-.3740	-.3160	-.3800	-.3460	-.3445	-.3585

MACH (3) = 1.100 BETAT (7) = 6.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3850	-.3870	-.3640	-.3730	-.3210	-.3840	-.3370	-.3435	-.3715

MACH (3) = 1.101 BETAT (8) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3950	-.3730	-.3780	-.3270	-.3850	-.3360	-.3370	-.3915

MACH (4) = 1.246 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3320	-.3120	-.3170	-.2710	-.3440	-.3250	-.3590	-.3510

MACH (4) = 1.250 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3270	-.3080	-.3120	-.2680	-.3360	-.3140	-.3570	-.3350

MACH (4) = 1.249 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3170	-.3220	-.2990	-.3060	-.2670	-.3220	-.2960	-.2953	-.3140

MACH (4) = 1.248 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3220	-.3250	-.3040	-.3060	-.2660	-.3200	-.2950	-.2970	-.3100

MACH (4) = 1.246 BETAT (5) = 2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3160	-.3210	-.3020	-.3010	-.2670	-.3120	-.2810	-.2810	-.3130

MACH (4) = 1.246 BETAT (6) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3220	-.3070	-.3000	-.2630	-.3090	-.2720	-.2830	-.3120

MACH (4) = 1.247 BETAT (7) = 6.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3210	-.3270	-.3130	-.3090	-.2670	-.3170	-.2711	-.2961	-.3211

MACH (4) = 1.245 BETAT (8) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3340	-.3210	-.3190	-.2680	-.3260	-.2750	-.2995	-.3341

AMES 11-737 IA9 OBA + S3 + T9 ORBITER BASE (RBMC09) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (1) = -8.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3030	-.3080	-.2680	-.2910	-.2120	-.2920	-.2250	-.2810	-.2880

MACH (1) = .597 BETAT (2) = -6.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2930	-.3030	-.2620	-.2860	-.1910	-.2870	-.2190	-.2740	-.2820

MACH (1) = .598 BETAT (3) = -4.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2920	-.2640	-.2790	-.2000	-.2690	-.2110	-.2610	-.2690

MACH (1) = .598 BETAT (4) = -2.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2780	-.2850	-.2480	-.2830	-.1990	-.2690	-.2100	-.2440	-.2610

MACH (1) = .596 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2690	-.2820	-.2530	-.2600	-.1850	-.2700	-.2130	-.2400	-.2640

MACH (1) = .598 BETAT (6) = 2.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2780	-.2810	-.2630	-.2650	-.1950	-.2750	-.2340	-.2370	-.2630

MACH (1) = .597 BETAT (7) = 4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2880	-.2660	-.2730	-.2010	-.2870	-.2430	-.2390	-.2740

MACH (1) = .597 BETA) = 6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2940	-.3040	-.2760	-.2820	-.1990	-.3030	-.2500	-.2420	-.2770

MACH (1) = .598 BETAT (9) = 8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3000	-.3140	-.2870	-.2940	-.2090	-.3180	-.2630	-.2530	-.2920

MACH (2) = .599 BETAT (1) = -8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3530	-.3560	-.3270	-.3420	-.2840	-.3630	-.2950	-.3360	-.3330

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC09)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .907 BETAT (2) = -6.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3270	-.2990	-.3160	-.2670	-.3390	-.2900	-.2810	-.3150

MACH (2) = .901 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3400	-.3070	-.3190	-.2580	-.3420	-.2790	-.2750	-.3170

MACH (2) = .899 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3150	-.2880	-.2940	-.2330	-.3100	-.2500	-.2640	-.2920

MACH (2) = .903 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3040	-.3120	-.2890	-.2950	-.2180	-.3110	-.2580	-.2660	-.2890

MACH (2) = .901 BETAT (6) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3220	-.3280	-.3060	-.3070	-.2300	-.3180	-.2710	-.2870	-.3130

MACH (2) = .900 BETAT (7) = 6.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3290	-.3100	-.3170	-.2410	-.3210	-.2760	-.2790	-.3120

MACH (2) = .900 BETAT (8) = 8.240

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3600	-.3580	-.3300	-.3440	-.2640	-.3550	-.3080	-.3030	-.3360

MACH (3) = 1.103 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3930	-.3700	-.3820	-.3260	-.4050	-.3870	-.4310	-.3740

MACH (3) = 1.100 B (AT (2) = -6.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3910	-.3660	-.3710	-.3180	-.4060	-.3620	-.3580	-.3620

MACH (3) = 1.103 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3880	-.3640	-.3780	-.3270	-.3940	-.3590	-.3610	-.3590

MACH (3) = 1.103 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3850	-.3670	-.3730	-.3220	-.3910	-.3570	-.3570	-.3610

MACH (3) = 1.103 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3800	-.3850	-.3650	-.3710	-.3170	-.3850	-.3350	-.3400	-.3560

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC09)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.103 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3810	-.3820	-.3680	-.3740	-.3210	-.3860	-.3500	-.3400	-.3640

MACH (3) = 1.101 BETAT (7) = 6.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3760	-.3810	-.3630	-.3670	-.3150	-.3790	-.3360	-.3340	-.3630

MACH (3) = 1.104 BETAT (8) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3890	-.3720	-.3780	-.3200	-.3850	-.3310	-.3360	-.3840

MACH (4) = 1.246 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3290	-.3160	-.3170	-.2700	-.3390	-.3190	-.3530	-.3490

MACH (4) = 1.248 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3430	-.3450	-.3280	-.3330	-.2930	-.3510	-.3310	-.3600	-.3540

MACH (4) = 1.249 BETAT (3) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3180	-.3190	-.3000	-.3080	-.2710	-.3200	-.2900	-.2940	-.3190

MACH (4) = 1.248 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3270	-.3030	-.3060	-.2690	-.3190	-.2930	-.2970	-.3110

MACH (4) = 1.249 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3230	-.3070	-.3070	-.2740	-.3150	-.2860	-.2860	-.3100

MACH (4) = 1.249 BETAT (6) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3240	-.3090	-.3060	-.2700	-.3150	-.2780	-.2770	-.3110

MACH (4) = 1.249 BETAT (7) = 6.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3270	-.3150	-.3140	-.2710	-.3180	-.2780	-.2930	-.3150

MACH (4) = 1.246 BETAT (8) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3320	-.3190	-.3210	-.2750	-.3270	-.2780	-.2960	-.3350

AMES 11-707 IA9 OBA + S3 + T9 ORBITER BASE (RBMC10) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (1) = -8.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3080	-.3170	-.2820	-.2970	-.2060	-.2970	-.2350	-.2890	-.2980

MACH (1) = .596 BETAT (2) = -6.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3020	-.3150	-.2730	-.2930	-.1970	-.2820	-.2260	-.2920	-.2850

MACH (1) = .597 BETAT (3) = -4.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2800	-.2990	-.2590	-.2780	-.2030	-.2710	-.2210	-.2620	-.2690

MACH (1) = .597 BETAT (4) = -2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2740	-.2790	-.2480	-.2620	-.1840	-.2610	-.2080	-.2580	-.2540

MACH (1) = .598 BETAT (5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2680	-.2770	-.2500	-.2620	-.1880	-.2620	-.2060	-.2330	-.2590

MACH (1) = .598 BETAT (6) = 2.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2760	-.2810	-.2630	-.2650	-.1960	-.2750	-.2330	-.2440	-.2690

MACH (1) = .597 BETAT (7) = 4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2760	-.2860	-.2580	-.2680	-.2010	-.2950	-.2430	-.2420	-.2700

MACH (1) = .598 BETAT (8) = 6.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2880	-.2900	-.2710	-.2840	-.1950	-.3070	-.2460	-.2510	-.2800

MACH (1) = .596 BETAT (9) = 8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
000	-.3040	-.3070	-.2730	-.2930	-.2040	-.3080	-.2600	-.2700	-.2930

MACH (2) = .901 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3590	-.3630	-.3240	-.3480	-.2820	-.3570	-.2960	-.3110	-.3340

AMES 11-707 IA9 OeA + S3 + T9 ORBITER BASE (RBMC10)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3420	-.3100	-.3250	-.2710	-.3400	-.2790	-.2900	-.3220

MACH (2) = .903 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3320	-.3060	-.3140	-.2430	-.3230	-.2690	-.2770	-.3150

MACH (2) = .902 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3110	-.3250	-.2940	-.3010	-.2430	-.3090	-.2670	-.2850	-.3030

MACH (2) = .902 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3170	-.3240	-.2950	-.3040	-.2230	-.3190	-.2700	-.2820	-.3030

MACH (2) = .901 BETAT (6) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2950	-.3330	-.3100	-.3190	-.2295	-.3270	-.2750	-.2950	-.3240

MACH (2) = .901 BETAT (7) = 6.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3460	-.3450	-.3160	-.3240	-.2320	-.3320	-.2720	-.2900	-.3190

MACH (2) = .900 BETAT (8) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3520	-.3280	-.3320	-.2610	-.3380	-.2850	-.2990	-.3350

MACH (3) = 1.103 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3970	-.3710	-.3880	-.3350	-.4060	-.3910	-.4750	-.4060

MACH (3) = 1.103 BETAT (2) = -6.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3930	-.3700	-.3780	-.3250	-.3890	-.3660	-.4140	-.3670

MACH (3) = 1.102 BETAT (3) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3860	-.3690	-.3770	-.3270	-.3970	-.3650	-.3520	-.3640

MACH (3) = 1.102 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3800	-.3830	-.3560	-.3670	-.3170	-.3940	-.3560	-.3440	-.3530

MACH (3) = 1.102 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3850	-.3810	-.3680	-.3680	-.3130	-.3810	-.3230	-.3390	-.3620

AMES 11-7?7 IA9 C2A + S3 + T9 ORBITER BASE (RBMC1D)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.102 BETAT (6) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3860	-.3740	-.3770	-.3170	-.3920	-.3380	-.3470	-.3730

MACH (3) = 1.100 BETAT (7) = 6.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3900	-.3740	-.3770	-.3200	-.3930	-.3350	-.3420	-.3720

MACH (3) = 1.106 BETAT (8) = 8.280

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3930	-.3770	-.3830	-.3190	-.3880	-.3390	-.3510	-.3940

MACH (4) = 1.246 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3350	-.3230	-.3260	-.2820	-.3380	-.3210	-.3450	-.3500

MACH (4) = 1.248 BETAT (2) = -6.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3260	-.3120	-.3200	-.2810	-.3290	-.3070	-.3280	-.3340

MACH (4) = 1.250 BETAT (3) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3260	-.3060	-.3180	-.2790	-.3240	-.3030	-.3000	-.3150

MACH (4) = 1.249 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3250	-.3050	-.3140	-.2760	-.3180	-.2950	-.2940	-.3060

MACH (4) = 1.245 BETAT (5) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3210	-.3220	-.3150	-.3110	-.2770	-.3200	-.2910	-.2890	-.3100

MACH (4) = 1.247 BETAT (6) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3240	-.3150	-.3110	-.2730	-.3160	-.2840	-.2850	-.3180

MACH (4) = 1.246 BETAT (7) = 6.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3280	-.3150	-.3190	-.2770	-.3240	-.2830	-.2860	-.3210

MACH (4) = 1.247 BETAT (8) = 8.220

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3370	-.3250	-.3270	-.2860	-.3360	-.2860	-.2860	-.34

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC11) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.040

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.3280	-.3330	-.2990	-.3180	-.2190	-.3080	-.2590	-.3210	-.3120

MACH (1) = .597 BETAT (2) = -6.030

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.3130	-.3140	-.2830	-.3030	-.2030	-.2870	-.2330	-.3060	-.2960

MACH (1) = .597 BETAT (3) = -4.010

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2980	-.3080	-.2790	-.2890	.0000	-.1990	-.2220	-.2850	-.2770

MACH (1) = .599 BETAT (4) = -2.000

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2850	-.2880	-.2580	-.2750	-.2150	-.2780	-.2170	-.2770	-.2680

MACH (1) = .600 BETAT (5) = .020

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2910	-.2930	-.2620	-.2740	-.2060	-.2720	-.2340	-.2690	-.2770

MACH (1) = .598 BETAT (6) = 2.060

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2850	-.2940	-.2710	-.2750	-.2090	-.2840	-.2470	-.2580	-.2770

MACH (1) = .597 BETAT (7) = 3.080

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2900	-.2930	-.2790	-.2760	-.2120	-.2880	-.247[illegible]	-.2550	-.2750

MACH (1) = .600 BETAT (8) = 4.100

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2940	-.2990	-.2810	-.2840	-.2200	-.3[illegible]30	-.2640	-.2[illegible]50	-.2750

MACH (1) = .601 BETAT (9) = 6.150

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.2980	-.3050	-.2830	-.2900	-.2100	-.3110	-.2640	-.2670	-.2840

MACH (1) = .600 BETAT (10) = 8.190

TAP NO A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
.000	-.3150	-.3240	-.2980	-.3090	-.2120	-.3220	-.269[illegible]	-.2800	-.3120

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC11)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3650	-.3690	-.3340	-.3510	-.2870	-.3590	-.3050	-.3180	-.3390

MACH (2) = .903 BETAT (2) = -6.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3400	-.3420	-.3180	-.3340	-.2690	-.3360	-.2860	-.3040	-.3260

MACH (2) = .903 BETAT (3) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3340	-.3380	-.3130	-.3270	-.2530	-.3330	-.2810	-.2880	-.3120

MACH (2) = .901 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3210	-.3240	-.2980	-.3140	-.2370	-.3090	-.2730	-.2940	-.3070

MACH (2) = .901 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3120	-.3190	-.2970	-.2950	-.2260	-.3100	-.2590	-.2710	-.3030

MACH (2) = .900 BETAT (6) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3200	-.3290	-.3140	-.3170	-.2310	-.3260	-.2630	-.2880	-.3140

MACH (2) = .902 BETAT (7) = 6.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3160	-.3240	-.3080	-.3130	-.2350	-.3260	-.2720	-.2900	-.3260

MACH (2) = .900 BETAT (8) = 8.280

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3540	-.3640	-.3450	-.3480	-.2620	-.3570	-.2790	-.3090	-.3410

MACH (3) = 1.103 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.4030	-.4050	-.3830	-.3980	-.3420	-.4190	-.3810	-.4610	-.4260

MACH (3) = 1.098 BETAT (2) = -6.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3890	-.3970	-.3660	-.3880	-.3350	-.4060	-.3570	-.3910	-.3870

MACH (3) = 1.102 BETAT (3) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3930	-.3950	-.3610	-.3870	-.3400	-.4020	-.3560	-.3720	-.3760

MACH (3) = 1.101 BETAT (4) = -2.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3830	-.3880	-.3550	-.3760	-.3300	-.3890	-.3580	-.35	-.35

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC11)

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (5) = 2.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3940	-.3790	-.3680	-.3280	-.3880	-.3380	-.3640	-.3750

MACH (3) = 1.103 BETAT (6) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.3990	-.3880	-.3850	-.3390	-.3950	-.3540	-.3650	-.3850

MACH (3) = 1.100 BETAT (7) = 6.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3950	-.3800	-.3870	-.3330	-.4070	-.3550	-.3630	-.3910

MACH (3) = 1.100 BETAT (8) = 8.300

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3990	-.3950	-.3840	-.3900	-.3330	-.3970	-.3440	-.3600	-.3930

MACH (4) = 1.245 BETAT (1) = -8.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3400	-.3240	-.3340	-.2940	-.3520	-.3210	-.3460	-.3540

MACH (4) = 1.249 BETAT (2) = -6.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3310	-.3120	-.3250	-.2870	-.3370	-.3050	-.3060	-.3320

MACH (4) = 1.249 BETAT (3) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3240	-.3100	-.3190	-.2830	-.3190	-.3010	-.3020	-.3020

MACH (4) = 1.248 BETAT (4) = -2.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3190	-.3190	-.3030	-.3130	-.2770	-.3120	-.2950	-.2960	-.2960

MACH (4) = 1.246 BETAT (5) = 2.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3180	-.3160	-.3100	-.3080	-.2780	-.3170	-.2860	-.2920	-.3050

MACH (4) = 1.247 BETAT (6) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3210	-.3230	-.3150	-.3140	-.2810	-.3180	-.2850	-.2920	-.3150

MACH (4) = 1.246 BETAT (7) = 6.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3250	-.3150	-.3200	-.2850	-.3290	-.2850	-.2890	-.3240

MACH (4) = 1.247 BETAT (8) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3300	-.3210	-.3260	-.2810	-.3300	-.2830	-.2930	-.3290

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC12) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4150	-.4230	-.3880	-.3750	-.3240	-.4230	-.4280	-.5100	-.4110

MACH (1) = 1.100 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4040	-.4130	-.3730	-.3690	-.3080	-.4380	-.3700	-.4100	-.3940

MACH (1) = 1.097 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3970	-.4040	-.3670	-.3600	-.2790	-.4190	-.3510	-.3400	-.3740

MACH (1) = 1.099 BETAT (4) = 4.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4010	-.3800	-.3630	-.3000	-.4030	-.3350	-.3510	-.3840

MACH (1) = 1.105 BETAT (5) = 8.300

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4080	-.4210	-.3890	-.3780	-.3010	-.4070	-.3480	-.3750	-.4000

MACH (2) = 1.250 BETAT (1) = -8.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3500	-.3250	-.3080	-.2580	-.3540	-.3540	-.4170	-.3520

MACH (2) = 1.251 BETAT (2) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3440	-.3140	-.3020	-.2620	-.3540	-.3330	-.3690	-.3390

MACH (2) = 1.246 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3450	-.3150	-.3060	-.2490	-.3460	-.3000	-.3410	-.3240

MACH (2) = 1.245 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3290	-.3040	-.2900	-.2510	-.3250	-.2760	-.2800	-.3220

MACH (2) = 1.247 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3400	-.3220	-.3060	-.2430	-.3280	-.2790	-.3210	-.3340

AMES 11-7X7 IA9 02A + S3 + T9 ORBITER BASE (RBMC13) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4070	-.4140	-.3810	-.3770	-.3180	-.4110	-.4100	-.4790	-.4030

MACH (1) = 1.098 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4040	-.4090	-.3680	-.3710	-.3090	-.4350	-.3700	-.3910	-.3860

MACH (1) = 1.101 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.4050	-.3730	-.3630	-.2830	-.4120	-.3450	-.3390	-.3710

MACH (1) = 1.097 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4030	-.4120	-.3820	-.3640	-.3090	-.4030	-.3430	-.3580	-.3940

MACH (1) = 1.102 BETAT (5) = 8.290

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3970	-.4060	-.3810	-.3680	-.3010	-.3860	-.3330	-.3670	-.3890

MACH (2) = 1.245 BETAT (1) = -8.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3380	-.3120	-.3010	-.2550	-.3460	-.3430	-.4220	-.3470

MACH (2) = 1.251 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3410	-.3090	-.3090	-.2600	-.3550	-.3290	-.3870	-.3340

MACH (2) = 1.246 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3460	-.3170	-.3080	-.2450	-.3530	-.3150	-.3120	-.3250

MACH (2) = 1.245 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3340	-.3140	-.2960	-.2510	-.3240	-.2690	-.2920	-.3310

MACH (2) = 1.247 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3290	-.3160	-.2980	-.2490	-.3190	-.2660	-.3290	-.3270

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC14) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3960	-.3660	-.3650	-.3180	-.4070	-.3750	-.4290	-.3960

MACH (1) = 1.101 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4040	-.4100	-.3690	-.3780	-.3150	-.4260	-.3710	-.3980	-.3800

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.4000	-.3660	-.3620	-.2840	-.4090	-.3540	-.3460	-.3640

MACH (1) = 1.103 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3930	-.3690	-.3620	-.2960	-.3890	-.3350	-.3480	-.3740

MACH (1) = 1.099 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3850	-.3890	-.3670	-.3620	-.3060	-.3740	-.3230	-.3740	-.3775

MACH (2) = 1.246 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3360	-.3120	-.3060	-.2640	-.3490	-.3400	-.3880	-.3510

MACH (2) = 1.244 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3400	-.3090	-.3060	-.2630	-.3480	-.3250	-.3670	-.3450

MACH (2) = 1.247 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3410	-.3130	-.3010	-.2410	-.3440	-.3010	-.2980	-.3130

MACH (2) = 1.245 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3280	-.3090	-.2970	-.2430	-.3220	-.2710	-.2720	-.3190

MACH (2) = 1.250 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3220	-.3250	-.3160	-.3010	-.2590	-.3150	-.2610	-.3170	-.3140

AMES 11-7?7 IA9 02A + S3 + T9 ORBITER BASE (RBMC15) (28 APR 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.3990	-.3710	-.3740	-.3210	-.4190	-.3760	-.4230	-.3960

MACH (1) = 1.101 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3980	-.4090	-.3720	-.3820	-.3150	-.4140	-.3680	-.3860	-.3690

MACH (1) = 1.103 BETAT (3) = .030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3920	-.3630	-.3610	-.2840	-.3890	-.3510	-.3440	-.3550

MACH (1) = 1.097 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3960	-.3700	-.3710	-.3050	-.3870	-.3380	-.3470	-.3710

MACH (1) = 1.100 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3820	-.3820	-.3620	-.3550	-.3120	-.3720	-.3210	-.3530	-.3730

MACH (2) = 1.245 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3380	-.3190	-.3150	-.2650	-.3480	-.3370	-.4010	-.3510

MACH (2) = 1.249 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3430	-.3120	-.3180	-.2720	-.3500	-.3280	-.3770	-.3340

MACH (2) = 1.247 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3380	-.3130	-.3020	-.2540	-.3330	-.2990	-.3420	-.3210

MACH (2) = 1.247 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3310	-.3080	-.2960	-.2500	-.3210	-.276	-.2995	-.3180

MACH (2) = 1.246 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3230	-.3250	-.3180	-.3050	-.2670	-.3170	-.26	-.3115	-.3330

AMES 11-7ft IA9 OPA + S3 + T9 ORBITER BASE (RBMC16) (28 APR 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8495 INCHES YMRP = .0000 INCHES
BREF = 39.8495 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .550
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.191 BETAT (1) = -8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3970	-.4010	-.3750	-.3820	-.3280	-.4260	-.3720	-.4150	-.3960

MACH (1) = 1.098 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4020	-.3710	-.3840	-.3230	-.4090	-.3690	-.3850	-.3710

MACH (1) = 1.100 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3910	-.3650	-.3630	-.2980	-.3840	-.3520	-.3450	-.3650

MACH (1) = 1.100 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3850	-.3920	-.3710	-.3750	-.3140	-.3830	-.3430	-.3470	-.3660

MACH (1) = 1.099 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3880	-.3630	-.3660	-.3160	-.3840	-.3300	-.3430	-.3740

MACH (2) = 1.247 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3390	-.3160	-.3180	-.2680	-.3470	-.3320	-.3740	-.3510

MACH (2) = 1.249 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3420	-.3140	-.3240	-.2780	-.3450	-.3210	-.3630	-.3340

MACH (2) = 1.247 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3320	-.3140	-.3070	-.2550	-.3230	-.2960	-.2940	-.3180

MACH (2) = 1.244 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3250	-.3270	-.3090	-.3000	-.2560	-.3140	-.2750	-.2930	-.3110

MACH (2) = 1.244 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3340	-.3250	-.3150	-.2700	-.3270	-.2650	-.3110	-.3330

AMES 11-FT I49 O2A + S3 + T5 ORBITER BASE (REVISED 28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.[illegible] DFBINC = .[illegible]
RUDDER = -5.[illegible] ELEVON = .[illegible]
RUDLR = .[illegible]

SECTION / 1:ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3920	-.3730	-.3800	-.3180	-.4160	-.3660	-.4[illegible]	-.3[illegible]

MACH (1) = 1.098 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3920	-.3690	-.3790	-.3220	-.3950	-.3640	-.3690	-.3640

MACH (1) = 1.102 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3840	-.3910	-.3640	-.3640	-.3060	-.3790	-.3530	-.3590	-.3610

MACH (1) = 1.100 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3930	-.3750	-.3790	-.3260	-.3870	-.3510	-.3520	-.3620

MACH (1) = 1.099 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3920	-.3680	-.3740	-.3330	-.3940	-.3560	-.3550	-.3770

MACH (2) = 1.244 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3420	-.3230	-.3260	-.2760	-.3560	-.3230	-.3[illegible]	.[illegible]

MACH (2) = 1.251 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3320	-.3100	-.3250	-.2770	-.3520	-.3[illegible]	.[illegible]	-.3[illegible]

MACH (2) = 1.248 BETAT (3) = .120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3430	-.3170	-.3190	-.2710	-.3[illegible]	-.3[illegible]	.[illegible]	-.3[illegible]

MACH (2) = 1.244 BETAT (4) = 4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3240	-.3290	-.3140	-.3050	-.2640	-.3310	-.3[illegible]	-.3[illegible]	-.3[illegible]

MACH (2) = 1.245 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3410	-.3300	-.3280	-.2[illegible]	-.3[illegible]	-.3[illegible]	.[illegible]	-.3[illegible]

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC18) (28 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3950	-.3720	-.3790	-.3280	-.4050	-.3770	-.4130	-.3740

MACH (1) = 1.099 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3900	-.3650	-.3790	-.3300	-.3990	-.3650	-.3620	-.3650

MACH (1) = 1.098 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3840	-.3660	-.3650	-.302[illegible]	-.3760	-.3480	-.3610	-.3660

MACH (1) = 1.100 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3890	-.3710	-.3740	-.3270	-.3880	-.3460	-.3430	-.3670

MACH (1) = 1.099 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3850	-.3880	-.3690	-.3760	-.3250	-.3820	-.3320	-.3330	-.3650

MACH (2) = 1.244 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3410	-.3280	-.3310	-.2800	-.3500	-.3270	-.3710	-.3570

MACH (2) = 1.244 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3360	-.3160	-.3230	-.2840	-.3360	-.3080	-.3290	-.3270

MACH (2) = 1.247 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3360	-.3200	-.3180	-.2750	-.3250	-.3020	-.3140	-.3200

MACH (2) = 1.249 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3290	-.3170	-.3140	-.2760	-.3220	-.2870	-.2930	-.3200

MACH (2) = 1.245 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3430	-.3310	-.3330	-.2900	-.3370	-.2870	-.3[illegible]	-.34[illegible]

AMES 11-7?7 IA9 C2A + S3 + T9 ORBITER BASE (RBMC19) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3930	-.3700	-.3900	-.3310	-.4030	-.3800	-.4520	-.4050

MACH (1) = 1.098 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3980	-.3690	-.3780	-.3290	-.4020	-.3640	-.3500	-.3670

MACH (1) = 1.101 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3800	-.3840	-.3580	-.3470	-.3090	-.3760	-.3430	-.3500	-.3520

MACH (1) = 1.102 BETAT (4) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3850	-.3740	-.3770	-.3340	-.3950	-.3400	-.3470	-.3720

MACH (1) = 1.100 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3930	-.3790	-.3840	-.3250	-.3870	-.3350	-.3470	-.3870

MACH (2) = 1.246 BETAT (1) = -8.125

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3460	-.3310	-.3380	-.2910	-.3490	-.3280	-.3660	-.3610

MACH (2) = 1.250 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3390	-.3200	-.3310	-.2910	-.3350	-.3120	-.3180	-.3280

MACH (2) = 1.247 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3360	-.3210	-.3210	-.2800	-.3220	-.3070	-.3170	-.3230

MACH (2) = 1.245 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3330	-.3200	-.3200	-.2870	-.3240	-.2940	-.3110	-.3250

MACH (2) = 1.244 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3440	-.3300	-.3340	-.2930	-.3350	-.2990	-.3120	-.3420

AMES 11-7?7 IA9 02A + S3 + T9 ORBITER BASE (REMC20) (28 APR 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 28.5350 INCHES
LREF = 39.6490 INCHES YMRP = .0000 INCHES
BREF = 39.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4020	-.4060	-.3790	-.4000	-.3400	-.4160	-.3780	-.4450	-.4300

MACH (1) = 1.101 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4020	-.3630	-.3860	-.3400	-.4050	-.3590	-.3800	-.3790

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3940	-.3620	-.3800	-.3200	-.3870	-.3540	-.3530	-.3605

MACH (1) = 1.100 BETAT (4) = 4.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3850	-.3710	-.3740	-.3260	-.3870	-.3370	-.3360	-.3740

MACH (1) = 1.099 BETAT (5) = 8.300

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3910	-.3790	-.3890	-.3370	-.3930	-.3380	-.3420	-.3910

MACH (2) = 1.246 BETAT (1) = -8.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3450	-.3470	-.3330	-.3410	-.2980	-.3510	-.3240	-.3530	-.3540

MACH (2) = 1.248 BETAT (2) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	.3370	-.3180	-.3360	-.2920	-.3330	-.3090	-.3120	-.3260

MACH (2) = 1.245 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3370	-.3200	-.3190	-.2890	-.3280	-.3080	-.3110	-.3240

MACH (2) = 1.245 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3370	-.3260	-.3270	-.2920	-.3310	-.2980	-.3040	-.3290

MACH (2) = 1.243 BETAT (5) = 7.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3420	-.3300	-.3340	-.2960	-.3370	-.3020	-.3070	-.3330

AMES 11-7X7 IAS C2A + S3 + T9 ORBITER BASE (RBMC21) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4030	-.4125	-.3810	-.3630	-.3140	-.4040	-.4100	-.4930	-.4030

MACH (1) = 1.104 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4020	-.4110	-.3670	-.3640	-.3100	-.4340	-.3730	-.4140	-.4020

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4140	-.3780	-.3690	-.2770	-.4220	-.3530	-.3430	-.3750

MACH (1) = 1.101 BETAT (4) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4010	-.4050	-.3800	-.3590	-.3000	-.4040	-.3340	-.3410	-.3900

MACH (1) = 1.100 BETAT (5) = 8.300

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4100	-.4200	-.3830	-.3680	-.3030	-.4040	-.3520	-.3680	-.4130

MACH (2) = 1.245 BETAT (1) = -8.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3450	-.3250	-.3050	-.2540	-.3530	-.3510	-.4360	-.3490

MACH (2) = 1.252 BETAT (2) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3440	-.3150	-.3000	-.2610	-.3530	-.3350	-.3990	-.3460

MACH (2) = 1.250 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3410	-.3470	-.3200	-.3060	-.2450	-.3500	-.3050	-.3210	-.3300

MACH (2) = 1.246 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3350	-.3100	-.2940	-.2520	-.3310	-.2870	-.2920	.3240

MACH (2) = 1.247 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3460	-.3200	-.3090	-.2500	-.3370	-.2690	-.3300	-.3410

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 (2A + S3 + T9 ORBITER BASE (RBMC22) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 CRBINC = .500
. DER = -10.000 ELEVON = .000
RUDDER = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4020	-.4110	-.3730	-.3690	-.3130	-.4110	-.4010	-.4460	-.4000

MACH (1) = 1.097 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4100	-.4170	-.3750	-.3760	-.3130	-.4390	-.3740	-.4120	-.3900

MACH (1) = 1.098 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3970	-.4030	-.3690	-.3630	-.2860	-.4130	-.3510	-.3410	-.3700

MACH (1) = 1.100 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3980	-.4080	-.3820	-.3670	-.3050	-.3940	-.3400	-.3560	-.3890

MACH (1) = 1.099 BETAT (5) = 8.280

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4040	-.4090	-.3840	-.3720	-.3050	-.3910	-.3380	-.3560	-.3960

MACH (2) = 1.247 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3370	-.3110	-.2980	-.2590	-.3430	-.3390	-.4240	-.3420

MACH (2) = 1.247 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3400	-.3100	-.3070	-.2590	-.3530	-.3260	-.3870	-.3360

MACH (2) = 1.250 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3410	-.3480	-.3170	-.3080	-.2410	-.3510	-.3030	-.3160	-.3280

MACH (2) = .250 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3380	-.3150	-.2990	-.2550	-.3280	-.2740	-.2970	-.3310

MACH (2) = 1.249 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3360	-.3180	-.2990	-.2480	-.3230	-.2720	-.3290	-.3330

AMES 11-707 IA9 OEA + S3 + T9 ORBITER BASE (RBMC23) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .550
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3950	-.3680	-.3650	-.3150	-.4020	-.3790	-.4180	-.3960

MACH (1) = 1.097 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4080	-.4130	-.3710	-.3800	-.3200	-.4310	-.3750	-.3940	-.3850

MACH (1) = 1.101 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.4000	-.3660	-.3680	-.2850	-.4070	-.3550	-.3910	-.3600

MACH (1) = 1.102 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3980	-.4010	-.3730	-.3610	-.3000	-.3960	-.3350	-.3500	-.3780

MACH (1) = 1.098 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3950	-.3760	-.3660	-.3120	-.3830	-.3300	-.3720	-.3880

MACH (2) = 1.248 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3370	-.3130	-.3070	-.2590	-.3500	-.3420	-.4130	-.3490

MACH (2) = 1.249 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3400	-.3100	-.3130	-.2600	-.3490	-.3270	-.3790	-.3330

MACH (2) = 1.248 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3470	-.3170	-.3090	-.2540	-.3480	-.3090	-.3160	-.3270

MACH (2) = 1.247 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3340	-.3170	-.3000	-.2500	-.3260	-.2750	-.2970	-.3280

MACH (2) = 1.246 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3300	-.3200	-.3020	-.2570	-.3160	-.2650	-.3270	-.3340

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC24) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3990	-.3700	-.3760	-.3140	-.414[illegible]	-.3730	-.4180	-.3940

MACH (1) = 1.098 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4080	-.4090	-.3760	-.3850	-.3290	-.4190	-.3830	-.3970	-.3790

MACH (1) = 1.098 BETAT (3) = .030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3920	-.4000	-.3710	-.3660	-.2880	-.3900	-.3490	-.3480	-.3590

MACH (1) = 1.097 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3890	-.3680	-.3660	-.3000	-.38[illegible]	-.3440	-.3500	-.3680

MACH (1) = 1.101 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3940	-.3740	-.3670	-.3120	-.3870	-.3330	-.3550	-.3810

MACH (2) = 1.246 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3330	-.3090	-.3080	-.2580	-.3[illegible]40	-.3320	-.3950	-.3470

MACH (2) = 1.249 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3450	-.3110	-.3170	-.2710	-.35[illegible]0	-.3260	-.3760	-.3370

MACH (2) = 1.249 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3420	-.3170	-.3100	-.2540	-.3380	-.3010	-.3[illegible]	-.3230

MACH (2) = 1.249 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3330	-.3150	-.3010	-.2510	-.3410	-.2770	-.2960	-.3230

MACH (2) = 1.248 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3370	-.3270	-.3110	-.2670	-.3260	-.2660	-.3310	-.3440

AMES 11-707 IA9 OEA + S3 + T9 ORBITER BASE (RBMC25) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8495 INCHES YMRP = .0000 INCHES
BREF = 39.8495 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3910	-.3730	-.3800	-.3190	-.4190	-.3650	-.4070	-.3870

MACH (1) = 1.095 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3980	-.3690	-.3820	-.3210	-.4050	-.3670	-.3850	-.3710

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3990	-.3730	-.3710	-.2960	-.3910	-.3530	-.3550	-.3690

MACH (1) = 1.100 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3990	-.3750	-.3790	-.3160	-.3880	-.3510	-.3520	-.3760

MACH (1) = 1.096 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4040	-.3690	-.3740	-.3140	-.3870	-.3360	-.3470	-.3920

MACH (2) = 1.246 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3350	-.3140	-.3160	-.2640	-.3430	-.3290	-.3860	-.3520

MACH (2) = 1.246 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3380	-.3100	-.3200	-.2710	-.3410	-.3190	-.3590	-.3340

MACH (2) = 1.249 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3440	-.3170	-.3110	-.2620	-.3290	-.3040	-.3520	-.3230

MACH (2) = 1.251 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3310	-.3170	-.3050	-.2580	-.3190	-.2820	-.3410	-.3240

MACH (2) = 1.249 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3410	-.3320	-.3210	-.2720	-.3330	-.2710	-.3250	-.3430

AMES 11-7ft IA9 C2A + S3 + T9 ORBITER BASE (RBMC26) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3850	-.3870	-.3690	-.3780	-.3270	-.4250	-.3660	-.3900	-.3930

MACH (1) = 1.099 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3890	-.3910	-.3690	-.3800	-.3250	-.3940	-.3640	-.3670	-.3700

MACH (1) = 1.100 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3920	-.3920	-.3700	-.3840	-.3070	-.3840	-.3550	-.3680	-.3680

MACH (1) = 1.101 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3890	-.3950	-.3720	-.3770	-.3210	-.3840	-.3540	-.3480	-.3690

MACH (1) = 1.098 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3950	-.4010	-.3730	-.3810	-.3220	-.3880	-.3330	-.3360	-.3850

MACH (2) = 1.247 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3330	-.3370	-.3200	-.3240	-.2720	-.3500	-.3290	-.3830	-.3580

MACH (2) = 1.250 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3270	-.3300	-.3090	-.3160	-.2750	-.3310	-.3020	-.3330	-.3230

MACH (2) = 1.248 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3360	-.3420	-.3190	-.3160	-.2710	-.3310	-.3030	-.3070	-.3250

MACH (2) = 1.246 BETAT (4) = 4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3310	-.3320	-.3190	-.3150	-.2720	-.3200	-.2830	-.2980	-.3260

MACH (2) = 1.247 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3490	-.3510	-.3420	-.3360	-.2850	-.3450	-.2870	-.3230	-.3490

AMES 11-707 IA9 OEA + S3 + T9 ORBITER BASE (RBMC27) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.3490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.00 ORBINC = .50
RUDDER = -10.00 ELEVON = .00
RUDFLR = .00

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CF

MACH (1) = 1.097 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3940	-.3720	-.3790	-.3220	-.4030	-.3790	-.4280	-.3640

MACH (1) = 1.099 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3920	-.3940	-.3720	-.3800	-.3250	-.4070	-.3680	-.3680	-.3695

MACH (1) = 1.100 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3810	-.3820	-.3660	-.3670	-.3010	-.3790	-.3450	-.3570	-.3640

MACH (1) = 1.099 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3920	-.3690	-.3750	-.3220	3880	-.3430	-.3480	-.3660

MACH (1) = 1.101 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3960	-.3780	-.3860	-.3300	-.3920	-.3340	-.3460	-.3960

MACH (2) = 1.249 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3400	-.3240	-.3270	-.2790	-.3490	-.3270	-.3720	-.3590

MACH (2) = 1.247 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3370	-.3150	-.3250	-.2860	-.3370	-.3190	-.3320	-.3290

MACH (2) = 1.249 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3430	-.3240	-.3230	-.2770	-.3310	-.3090	-.3120	-.3260

MACH (2) = 1.251 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3330	-.3230	-.3180	-.2770	-.3260	-.2990	-.3120	-.3270

MACH (2) = 1.246 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3470	-.3510	-.3380	-.3380	-.2930	-.3440	-.3190	-.3310	-.3450

AMES 11-7ft IA9 O2A + S3 + T9 ORBITER BASE (RBMC28) (28 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3970	-.3740	-.3860	-.3290	-.4040	-.3800	-.4590	-.4080

MACH (1) = 1.098 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3910	-.3680	-.3780	-.3260	-.3990	-.3720	-.3570	-.3690

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3830	-.3850	-.3580	-.3550	-.3120	-.3780	-.3400	-.3550	-.3560

MACH (1) = 1.102 BETAT (4) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3910	-.3750	-.3770	-.3290	-.3940	-.3420	-.3510	-.3760

MACH (1) = 1.099 BETAT (5) = 8.280

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4020	-.3880	-.3980	-.3350	-.4020	-.3440	-.3560	-.4040

MACH (2) = 1.248 BETAT (1) = -8.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3430	-.3290	-.3320	-.2880	-.3480	-.3260	-.3640	-.36 0

MACH (2) = 1.251 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3380	-.3190	-.3280	-.2960	-.3330	-.3090	-.3210	-.327

MACH (2) = 1.249 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3360	-.3220	-.3180	-.2850	-.3240	-.3050	-.3150	-.324

MACH (2) = 1.245 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3370	-.3260	-.3260	-.2880	-.3320	-.2950	-.3050	-.330

MACH (2) = 1.245 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3500	-.3380	-.3430	-.2950	-.3470	-.2970	-.3140	-.35

AMES 11-7X7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC29) (20 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4030	-.4070	-.3830	-.3980	-.3330	-.4070	-.3720	-.4350	-.4190

MACH (1) = 1.098 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4000	-.3590	-.3840	-.3300	-.3980	-.3540	-.3810	-.3740

MACH (1) = 1.098 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3980	-.3660	-.3610	-.3190	-.3860	-.3600	-.3510	-.3690

MACH (1) = 1.098 BETAT (4) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3900	-.3770	-.3720	-.3330	-.3850	-.3570	-.3580	-.3770

MACH (1) = 1.098 BETAT (5) = 8.310

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4030	-.4020	-.3880	-.4040	-.3380	-.4070	-.3450	-.3630	-.4030

MACH (2) = 1.247 BETAT (1) = -8.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3440	-.3290	-.3370	-.2920	-.3450	-.3260	-.3510	-.3490

MACH (2) = 1.249 BETAT (2) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3370	-.3160	-.3300	-.2960	-.3280	-.3070	-.3120	-.3260

MACH (2) = 1.249 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3410	-.3490	-.3260	-.3240	-.2910	-.3330	-.3120	-.3160	-.3260

MACH (2) = 1.249 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3420	-.3350	-.3330	-.2950	-.3370	-.3150	-.3130	-.3340

MACH (2) = 1.246 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3530	-.3550	-.3430	-.3460	-.3110	-.3510	-.3260	-.3030	-.3550

AMES 11-707 IA9 OEA + S3 + T9 ORBITER BASE (RBMC30) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.0490 INCHES YMRP = .0000 INCHES
BREF = 39.0490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDDLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4240	-.4330	-.4010	-.3810	-.3210	-.4230	-.4320	-.5200	-.4180

MACH (1) = 1.102 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4150	-.4200	-.3780	-.3730	-.3060	-.4450	-.3730	-.4240	-.4050

MACH (1) = 1.102 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4120	-.4160	-.3780	-.3650	-.2780	-.4230	-.3520	-.3510	-.3880

MACH (1) = 1.100 BETAT (4) = 4.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4150	-.4210	-.3880	-.3690	-.2980	-.4140	-.3460	-.3630	-.3990

MACH (1) = 1.102 BETAT (5) = 8.310

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4240	-.4340	-.3930	-.3780	-.3040	-.4180	-.3620	-.3930	-.4080

MACH (2) = 1.244 BETAT (1) = -8.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3460	-.3570	-.3370	-.3150	-.2640	-.3620	-.3600	-.4540	-.3560

MACH (2) = 1.245 BETAT (2) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3440	-.3520	-.3250	-.3120	-.2670	-.3600	-.3390	-.4060	-.3520

MACH (2) = 1.249 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3550	-.3260	-.3120	-.2490	-.3630	-.3060	-.3320	-.3410

MACH (2) = 1.245 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3400	-.3170	-.2990	-.2520	-.3380	-.2870	-.2960	-.3290

MACH (2) = 1.247 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3510	-.3290	-.3130	-.2550	-.3410	-.2940	-.3440	-.3460

AMES 11-7D7 IA9 OBA + S3 + T9 ORBITER BASE (RBNC31) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4100	-.4190	-.3850	-.3760	-.3160	-.4120	-.4140	-.4800	-.4120

MACH (1) = 1.101 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4160	-.4210	-.3780	-.3840	-.3110	-.4480	-.3770	-.4190	-.3990

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4040	-.4050	-.3710	-.3660	-.2830	-.4240	-.3550	-.3440	-.3750

MACH (1) = 1.098 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4120	-.4160	-.3920	-.3680	-.3010	-.4000	-.3440	-.3570	-.3890

MACH (1) = 1.097 BETAT (5) = 8.280

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	[illegible]	9.000
A									
.000	-.4120	-.4190	-.3880	-.3750	-.3050	-.3970	-.3390	-.3840	-.4050

MACH (2) = 1.247 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3450	-.3190	-.3060	-.2540	-.3540	-.3480	-.4220	-.3510

MACH (2) = 1.248 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3500	-.3550	-.3260	-.3190	-.2690	-.3660	-.3450	-.4150	-.3490

MACH (2) = 1.251 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3530	-.3230	-.3140	-.2440	-.3630	-.3070	-.3790	-.3320

MACH (2) = 1.251 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3400	-.3230	-.3030	-.2480	-.3290	-.2770	-.3450	-.3360

MACH (2) = 1.250 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3370	-.3430	-.3270	-.3080	-.2530	-.3390	-.2780	-.3410	-.3420

AMES 11-707 IA9 O2A + S3 + T9 ORBITER BASE (RBMC32) (28 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.200

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3940	-.4060	-.3770	-.3660	-.3120	-.4070	-.3510	-.4450	-.4120

MACH (1) = 1.098 BETAT (2) = -4.090

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.4050	-.4120	-.3720	-.3810	-.3120	-.4210	-.3780	-.4140	-.3830

MACH (1) = 1.100 BETAT (3) = .020

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3990	-.4050	-.3760	-.3720	-.2830	-.4110	-.3580	-.3480	-.3670

MACH (1) = 1.101 BETAT (4) = 4.130

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.4050	-.4090	-.3850	-.3730	-.3040	-.3970	-.3420	-.3610	-.3890

MACH (1) = 1.101 BETAT (5) = 8.260

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3990	-.4010	-.3820	-.3650	-.3090	-.3810	-.3310	-.3660	-.3910

MACH (2) = 1.249 BETAT (1) = -8.150

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3360	-.3450	-.3170	-.3130	-.2620	-.3510	-.3470	-.4230	-.3540

MACH (2) = 1.250 BETAT (2) = -4.060

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3480	-.3510	-.3180	-.3220	-.2660	-.3590	-.3430	-.3960	-.3430

MACH (2) = 1.250 BETAT (3) = .020

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3460	-.3500	-.3220	-.3120	-.2520	-.3660	-.3120	-.3160	-.3330

MACH (2) = 1.246 BETAT (4) = 4.110

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3300	-.3380	-.3170	-.3030	-.2470	-.3310	-.2790	-.3120	-.3330

MACH (2) = 1.246 BETAT (5) = 8.210

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
	.000	-.3330	-.3350	-.3240	-.3080	-.2620	-.3240	-.2680	-.3320	-.3380

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMC33) (28 APR 73)

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = -2.000 ORBINC = .500
BODYF = -15.000 ELEVON = .000
BODYP = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4030	-.3750	-.3770	-.3180	-.4170	-.3790	-.4430	-.4160

MACH (1) = 1.101 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4090	-.4130	-.3750	-.3680	-.3230	-.4290	-.3810	-.4080	-.3810

MACH (1) = 1.100 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3980	-.4010	-.3700	-.3690	-.2850	-.3950	-.3550	-.3490	-.3670

MACH (1) = 1.101 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.4030	-.3740	-.3720	-.3000	-.3900	-.3450	-.3560	-.3750

MACH (1) = 1.099 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3990	-.4010	-.3760	-.3710	-.3130	-.3860	-.3340	-.3670	-.3920

MACH (2) = 1.247 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3410	-.3200	-.3140	-.2650	-.3470	-.3390	-.4020	-.3530

MACH (2) = 1.246 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3510	-.3560	-.3240	-.3290	-.2850	-.3580	-.3420	-.3930	-.3480

MACH (2) = 1.250 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3500	-.3240	-.3150	-.2550	-.3480	-.3090	-.3140	-.3280

MACH (2) = 1.250 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3360	-.3200	-.3090	-.2540	-.3240	-.2940	-.3110	-.3220

MACH (2) = 1.248 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3370	-.3290	-.3150	-.2740	-.3330	-.2670	-.3350	-.3220

AMES 11-7?? IA9 02A + S3 + T9 ORBITER BASE (RBMC34) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .030 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
FLDDEF = -15.000 ELEVON = .000
FLDF_R = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (1) = -8.250

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3980	-.3980	-.3780	-.3820	-.3190	-.4190	-.3730	-.4150	-.0910

MACH (1) = 1.098 BETAT (2) = -4.090

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.4050	-.4040	-.3720	-.3850	-.3190	-.4120	-.3720	-.3890	-.3720

MACH (1) = 1.099 BETAT (3) = .020

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3960	-.3970	-.3700	-.3690	-.2930	-.3870	-.3500	-.3500	-.3610

MACH (1) = 1.100 BETAT (4) = 4.130

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3940	-.3980	-.3760	-.3820	-.3190	-.3940	-.3530	-.3610	-.3770

MACH (1) = 1.099 BETAT (5) = 8.250

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.4050	-.4050	-.3790	-.3840	-.3190	-.3980	-.3410	-.3560	-.3930

MACH (2) = 1.249 BETAT (1) = -8.160

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3330	-.3380	-.3160	-.3230	-.2640	-.3460	-.3300	-.3910	-.3540

MACH (2) = 1.250 BETAT (2) = -4.070

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3470	-.3520	-.3220	-.3290	-.2810	-.3550	-.3300	-.3790	-.3450

MACH (2) = 1.249 BETAT (3) = .020

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3420	-.3460	-.3230	-.3190	-.2610	-.3390	-.3070	-.3680	-.3380

MACH (2) = 1.245 BETAT (4) = 4.110

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3340	-.3370	-.3190	-.3050	-.2570	-.3240	-.2810	-.3160	-.3330

MACH (2) = 1.247 BETAT (5) = 8.200

	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A										
.000		-.3390	-.3420	-.3330	-.3240	.2740	-.3360	-.2730	-.3340	-.3470

AMES 11-7X7 IA9 O2A + S3 + T9 ORBITER BASE (R8MC35) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BLEF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.092 BETAT (1) = -8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3940	-.3680	-.3780	-.3160	-.4250	-.3650	-.4080	-.3930

MACH (1) = 1.095 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.3910	-.3680	-.3810	-.3260	-.4010	-.3680	-.3740	-.3710

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3920	-.3960	-.3700	-.3640	-.3010	-.3800	-.3520	-.3640	-.3670

MACH (1) = 1.101 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.3970	-.3750	-.3820	-.3230	-.3920	-.3520	-.3510	-.3720

MACH (1) = 1.106 BETAT 5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4050	-.3850	-.3860	-.3300	-.3950	-.3410	-.3490	-.3970

MACH (2) = 1.248 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3430	-.3260	-.3280	-.2770	-.3570	-.3350	-.3900	-.3650

MACH (2) = 1.244 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3350	-.3370	-.3160	-.3260	-.2760	-.3380	-.3110	-.3420	-.3290

MACH (2) = 1.250 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3450	-.3240	-.3230	-.2740	-.3370	-.3110	-.3320	-.3120

MACH (2) = 1.248 BETAT (4) = 4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3380	-.3260	-.3170	-.2720	-.3240	-.2880	-.3040	-.3310

MACH (2) = 1.248 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3480	-.3510	-.3380	-.3350	-.2820	-.3410	-.3120	-.3260	-.3430

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC36) (28 APR 73)

REFERENCE DATA

SREF = 3.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 32.8490 INCHES YMRP = .0000 INCHES
BREF = 23.9490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
FLAP = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.113 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3950	-.3730	-.3800	-.3190	-.4070	-.3810	-.4320	-.3710

MACH (1) = 1.099 BETAT (2) = -4.100

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.3960	-.3670	-.3800	-.3310	-.4050	-.3660	-.3630	-.3690

MACH (1) = 1.098 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3870	-.3680	-.3680	-.3280	-.3820	-.3520	-.3700	-.3710

MACH (1) = 1.098 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3860	-.3880	-.3720	-.3810	-.3220	-.3890	-.3430	-.3410	-.3680

MACH (1) = 1.100 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.4040	-.3820	-.3850	-.3250	-.3950	-.3380	-.3480	-.3970

MACH (2) = 1.248 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3420	-.3250	-.3290	-.2840	-.3510	-.3310	-.3760	-.3640

MACH (2) = 1.249 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3410	-.3200	-.3310	-.2840	-.3490	-.3130	-.3390	.3340

MACH (2) = 1.249 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3440	-.3250	-.3260	-.2790	-.3370	-.3110	-.3150	-.3300

MACH (2) = 1.245 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3440	-.3290	-.3250	-.2790	-.3350	-.2940	-.3070	.3330

MACH (2) = 1.246 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3490	-.3520	-.3390	-.3410	-.2920	-.3450	-.2920	-.3160	-.3570

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC37) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3930	-.4000	-.3740	-.3870	-.3220	-.4080	-.3840	-.4620	-.4060

MACH (1) = 1.100 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3920	-.3910	-.3630	-.3790	-.3220	-.4010	-.3700	-.3590	-.3680

MACH (1) = 1.098 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3850	-.3900	-.3670	-.3600	-.3140	-.3840	-.3520	-.3600	-.3640

MACH (1) = 1.100 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3950	-.3780	-.3860	-.3290	-.4050	-.3430	-.3560	-.3830

MACH (1) = 1.099 BETAT (5) = 8.280

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.4010	-.3840	-.3940	-.3250	-.4060	-.3420	-.3560	-.4010

MACH (2) = 1.247 BETAT (1) = -8.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3460	-.3320	-.3360	-.2890	-.3510	-.3270	-.3660	-.3630

MACH (2) = 1.248 BETAT (2) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3410	-.3220	-.3320	-.2910	-.3400	-.3140	-.3270	-.3310

MACH (2) = 1.247 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3390	-.3430	-.3230	-.3240	-.3320	-.2650	-.3080	-.3160	-.3[illegible]

MACH (2) = 1.252 BETAT (4) = 4.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.
A									
.000	-.3370	-.3400	-.3300	-.3280	-.2870	-.3330	-.2980	-.3111	.3330

MACH (2) = 1.247 BETAT (5) = 8.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3450	-.3510	-.3400	-.3400	-.2950	-.3420	-.2970	-.3150	-.3520

AMES 11-FT IA9 02A + S3 + T9 ORBITER BASE CRMC381 (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 23.8400 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLP = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.199 BETAT (1) = -8.170

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.4040	-.4080	-.3820	-.3980	-.3330	-.4140	-.3750	-.4500	-.4270

MACH (1) = 1.099 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.4030	-.4050	-.3670	-.3860	-.3280	-.4040	-.3650	-.3960	-.3820

MACH (1) = 1.099 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3930	-.3980	-.3660	-.3620	-.3130	-.3900	-.3600	-.3550	-.3700

MACH (1) = 1.095 BETAT (4) = 4.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3910	-.3920	-.3760	-.3800	-.3310	-.3930	-.3490	-.3600	-.3750

MACH (1) = 1.097 BETAT (5) = 8.310

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.4030	-.4090	-.3980	-.4000	-.3380	-.4160	-.3480	-.3730	-.4070

MACH (2) = 1.245 BETAT (1) = -8.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3470	-.3470	-.3350	-.3430	-.2980	-.3520	-.3260	-.3560	-.3540

MACH (2) = 1.251 BETAT (2) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3400	-.3420	-.3220	-.3320	-.2920	-.3320	-.3130	-.3190	-.3290

MACH (2) = 1.246 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3430	-.3430	-.3260	-.3250	-.2940	-.3350	-.3110	-.3170	-.3250

MACH (2) = 1.245 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3380	-.3400	-.3320	-.3310	-.2920	-.3350	-.3020	-.3120	-.3340

MACH (2) = 1.245 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
	.000	-.3510	-.3540	-.3460	-.3470	-.3050	-.3500	-.3080	-.3280	-.3520

AMES 11-707 IA9 02A + 53 + T9 ORBITER BASE (SBMC39) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.105 BETAT (1) = -8.180

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4250	-.4320	-.4010	-.3820	-.3290	-.4270	-.4360	-.5070	-.4230

MACH (1) = 1.097 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4170	-.4210	-.3310	-.3790	-.3170	-.4480	-.3850	-.4230	-.4100

MACH (1) = 1.098 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4090	-.4170	-.3870	-.3780	-.2870	-.4350	-.3640	-.3660	-.3840

MACH (1) = 1.104 BETAT (4) = 4.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4110	-.4120	-.3850	-.3670	-.3160	-.4130	-.3480	-.3660	.3940

MACH (1) = 1.099 BETAT (5) = 8.310

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4280	-.4400	-.4090	-.3940	-.3240	-.4270	-.3690	-.3810	-.4140

MACH (2) = 1.251 BETAT (1) = -8.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3400	-.3180	-.2970	-.2520	-.3450	-.3450	-.4140	-.3420

MACH (2) = 1.249 BETAT (2) = -4.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3350	-.3040	-.2960	-.2550	-.3500	-.3250	-.3660	-.3330

MACH (2) = 1.246 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3360	-.3100	-.3010	-.2380	-.3420	-.2950	-.2940	-.3160

MACH (2) = 1.246 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3200	-.3240	-.3000	-.2870	-.2470	-.3210	-.2700	-.2730	-.3110

MACH (2) = 1.245 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3300	-.3400	-.3130	-.3000	-.2480	-.3300	.0000	-.3780	-.3147

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC40) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4010	-.4080	-.3810	-.3770	-.3260	-.4160	-.3890	-.4400	-.4050

MACH (1) = 1.101 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4080	-.4140	-.3770	-.3900	-.3150	-.4330	-.3760	-.3940	-.3870

MACH (1) = 1.101 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4000	-.4050	-.3720	-.3720	-.2880	-.4100	-.3580	-.3530	-.3670

MACH (1) = 1.099 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3920	-.4000	-.3720	-.3620	-.2930	-.3860	-.3390	-.3410	-.3740

MACH (1) = 1.100 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3730	-.3820	-.3640	-.3550	-.3050	-.3680	-.3270	-.3510	-.3770

MACH (2) = 1.244 BETAT (1) = -8.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3360	-.3130	-.3050	-.2640	-.3480	-.3390	-.3990	-.3480

MACH (2) = 1.245 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3370	-.3040	-.3040	-.2620	-.3550	-.3200	-.3430	-.3270

MACH (2) = 1.248 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3410	-.3130	-.3040	-.2450	-.3440	-.3010	-.3020	-.3170

MACH (2) = 1.252 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3340	-.3130	-.2980	-.2530	-.3260	-.2680	-.2700	-.3230

MACH (2) = 1.250 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3150	-.3190	-.3090	-.2940	-.2450	-.3090	-.2550	-.3160	-.3230

AMES 11-7?7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC41) 28 APR 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CP

MACH (.) = 1.101 BETAT (1) = -8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4080	-.4130	-.3850	-.3890	-.3350	-.4360	-.3810	-.4270	-.4080

MACH (1) = 1.098 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.4100	-.4110	-.3810	-.3900	-.3330	-.4160	-.3810	-.3890	-.3760

MACH (1) = 1.100 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.3940	-.3670	-.3660	-.2930	-.3820	-.3470	-.3490	-.3590

MACH (1) = 1.100 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3960	-.3740	-.3710	-.3250	-.3860	-.3440	-.3470	-.3650

MACH (1) = 1.100 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3940	-.3990	-.3720	-.3730	-.3160	-.3870	-.3360	-.3360	-.3690

MACH (2) = 1.247 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3350	-.3130	-.3170	-.2670	-.3430	-.3340	-.3860	-.3470

MACH (2) = 1.251 BETAT (2) = -4.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3370	-.3100	-.3180	-.2720	-.3400	-.3150	-.3440	-.3350

MACH (2) = 1.246 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3350	-.3090	-.3090	-.2620	-.3260	-.2980	-.3350	-.3120

MACH (2) = 1.247 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3320	-.3130	-.3030	-.2600	-.3180	-.2760	-.3270	-.3160

MACH (2) = 1.246 BETAT (5) = 8.200

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3360	-.3240	-.3140	-.2660	-.3260	-.2810	-.3270	-.3330

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 ORBITER BASE (RBMC42) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDDLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3940	-.3710	-.3780	-.3280	-.4080	-.3820	-.4310	-.3700

MACH (1) = 1.102 BETAT (2) = -4.090

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3880	-.3910	-.3710	-.3780	-.3260	-.4020	-.3640	-.3630	-.3640

MACH (1) = 1.098 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3820	-.3860	-.3690	-.3700	-.3120	-.3810	-.3500	-.3510	-.3690

MACH (1) = 1.099 BETAT (4) = 4.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3890	-.3910	-.3720	-.3770	-.3240	-.3930	-.3470	-.3470	-.3650

MACH (1) = 1.100 BETAT (5) = 8.260

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4000	-.3750	-.3850	-.3220	-.3900	-.3300	-.3300	-.3920

MACH (2) = 1.245 BETAT (1) = -8.140

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3380	-.3420	-.3270	-.3310	-.2820	-.3490	-.3280	-.3540	-.3610

MACH (2) = 1.246 BETAT (2) = -4.080

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3310	-.3340	-.3140	-.3220	-.2810	-.3320	-.3050	-.3160	-.3240

MACH (2) = 1.249 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3330	-.3340	-.3170	-.3170	-.2770	-.3220	-.3030	-.3150	-.3170

MACH (2) = 1.247 BETAT (4) = 4.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3340	-.3220	-.3200	-.2820	-.3290	-.2910	-.2910	-.3250

MACH (2) = 1.246 BETAT (5) = 8.210

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3460	-.3460	.3340	-.3360	-.2900	-.3390	-.2910	-.2920	-.3320

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7?7 IA9 O2A + S3 + T9 ORBITER BASE (RBMC43) 28 APR 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.160

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3990	-.4050	-.3820	-.3980	-.3400	-.4180	-.3840	-.4330	-.4240

MACH (1) = 1.097 BETAT (2) = -4.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3980	-.4010	-.3630	-.3850	-.3430	-.4070	-.3680	-.3730	-.3750

MACH (1) = 1.101 BETAT (3) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3940	-.3980	-.3650	-.3640	-.3240	-.3920	-.3640	-.3630	-.3630

MACH (1) = 1.099 BETAT (4) = 4.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3930	-.3930	-.3810	-.3810	-.3340	-.3930	-.3480	-.3590	-.3780

MACH (1) = 1.099 BETAT (5) = 8.300

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3870	-.3880	-.3780	-.3840	-.3300	-.3940	-.3390	-.3480	-.3940

MACH (2) = 1.245 BETAT (1) = -8.110

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3420	-.3440	-.3270	-.3410	-.2970	-.3560	-.3230	-.3480	-.3510

MACH (2) = 1.249 BETAT (2) = -4.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3370	-.3370	-.3190	-.3300	-.2950	-.3330	-.3110	-.3120	-.3240

MACH (2) = 1.246 BETAT (3) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3370	-.3400	-.3240	-.3240	-.2860	-.3310	-.3110	-.3110	-.3250

MACH (2) = 1.245 BETAT (4) = 4.130

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3380	-.3400	-.3330	-.3320	-.2960	-.3370	-.3130	-.3170	-.3330

MACH (2) = 1.246 BETAT (5) = 8.250

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A .000	-.3500	-.3510	-.3410	-.3460	-.3050	-.3510	-.3230	-.3310	-.3510

DATE 20 SEP 79 TABULATED PRESSURE DATA - IA9A

AMES 11-7X7 IA9 02A + S3 + T9 ORBITER BASE (RBMC44) [27 APR 79]

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ORBINC = -1.200
RUDDER = .000 ELEVON = .000
RUDDLR = .000

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = .600 ALPHAT(1) = -8.050

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3070	-.3100	-.2770	-.2750	-.2170	-.2950	-.2450	-.2370	-.2910

MACH (1) = .600 ALPHAT(2) = -5.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3100	-.3130	-.2810	-.2710	-.2110	-.3040	-.2370	-.2410	-.2950

MACH (1) = .598 ALPHAT(3) = -3.990

TAP NO	1.000	2.000	3.000		5.000	6.000	7.000	8.000	9.000
A									
.000	-.2990	-.3080	-.2740	-.2730	-.2130	-.2880	-.2310	-.2380	-.2750

MACH (1) = .599 ALPHAT(4) = -1.970

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3010	-.2990	-.2670	-.2750	-.1970	-.2950	-.2340	-.2380	-.2690

MACH (1) = .600 ALPHAT(5) = .060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2910	-.2990	-.2640	-.2760	-.1950	-.2960	-.2360	-.2460	-.2710

MACH (1) = .600 ALPHAT(6) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2920	-.2970	-.2660	-.2760	-.1950	-.2980	-.2380	-.2340	-.2760

MACH (1) = .600 ALPHAT(7) = 4.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2860	-.2950	-.2590	-.2740	-.2110	-.2770	-.2270	-.2350	-.2770

MACH (1) = .598 ALPHAT(8) = 6.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2820	-.2870	-.2570	-.2730	-.1970	-.2880	-.2310	-.2360	-.2670

MACH (1) = .599 ALPHAT(9) = 8.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.2830	-.2910	-.2590	-.2690	-.2070	-.2980	-.2290	-.2350	-.2680

MACH (2) = .901 ALPHAT(1) = -8.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3350	-.3160	-.3090	-.2290	-.3410	-.2840	-.2750	-.3190

DATE 20 SEP 79 TABULATED PRESSURE DATA - IA9A (REMC44)

AMES 11-7X7 IA9 O2A + S3 + T9 ORBITER BASE

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = .901 ALPHAT(2) = -6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3320	-.3160	-.3040	-.2260	-.3330	-.2760	-.2750	-.3050

MACH (2) = .899 ALPHAT(3) = -4.025

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3260	-.3260	-.3040	-.2930	-.2210	-.3300	-.2710	-.2620	-.3000

MACH (2) = .900 ALPHAT(4) = -1.899

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3090	-.3200	-.2980	-.2970	-.2230	-.3220	-.2590	-.2640	-.2980

MACH (2) = .902 ALPHAT(5) = .010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3120	-.3210	-.2970	-.2990	-.2340	-.3240	-.2660	-.2640	-.3030

MACH (2) = .902 ALPHAT(6) = 1.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3130	-.3200	-.2950	-.2880	-.2360	-.3110	-.2580	-.2610	-.2950

MACH (2) = .901 ALPHAT(7) = 4.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3040	-.3120	-.2910	-.2940	-.2310	-.3030	-.2510	-.2620	-.2910

MACH (2) = .904 ALPHAT(8) = 6.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3100	-.3190	-.2910	-.3010	-.2340	-.3060	-.2550	-.2650	-.2980

MACH (2) = .898 ALPHAT(9) = 7.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3200	-.3190	-.2950	-.3050	-.2480	-.3170	-.2620	-.2680	-.3020

MACH (3) = 1.103 ALPHAT(1) = -8.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4070	-.3710	-.3530	-.2920	-.4140	-.3360	-.3370	-.3760

MACH (3) = 1.097 ALPHAT(2) = -5.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3910	-.4020	-.3690	-.3600	-.2850	-.4110	-.3270	-.3300	-.3670

MACH (3) = 1.100 ALPHAT(3) = -3.970

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3960	-.4020	-.3750	-.3630	-.2930	-.4130	-.3260	-.3260	-.3660

MACH (3) = 1.102 ALPHAT(4) = -1.990

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3950	-.4030	-.3720	-.3660	-.2950	-.4090	-.3220	-.3240	-.3630

SECTION (1)ORBITER BASE DEPENDENT VARIABLE CF

MACH (3) = 1.100 ALPHAT(5) = .030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3900	-.3920	-.3630	-.3590	-.3000	-.3830	-.3430	-.3440	-.3620

MACH (3) = 1.101 ALPHAT(6) = 2.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3870	-.3900	-.3640	-.3640	-.3100	-.3760	-.3510	-.3500	-.3560

MACH (3) = 1.102 ALPHAT(7) = 3.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3810	-.3830	-.3600	-.3690	-.3090	-.3790	-.3460	-.3530	-.3660

MACH (3) = 1.105 ALPHAT(8) = 6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3770	-.3790	-.3600	-.3660	-.3130	-.3740	-.3380	-.3500	-.3630

MACH (3) = 1.102 ALPHAT(9) = 8.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3790	-.3840	-.3600	-.3560	-.3190	-.3730	-.3400	-.3480	-.3610

MACH (4) = 1.247 ALPHAT(1) = -8.060

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3400	-.3460	-.3150	-.3070	-.2480	-.3450	-.3100	-.3440	-.3350

MACH (4) = 1.250 ALPHAT(2) = -5.960

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3420	-.3470	-.3190	-.3070	-.2510	-.3500	-.3110	-.3390	-.3330

MACH (4) = 1.247 ALPHAT(3) = -3.960

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3380	-.3120	-.3020	-.2530	-.3440	-.3020	-.3120	-.3180

MACH (4) = 1.248 ALPHAT(4) = -2.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3280	-.3330	-.3080	-.2960	-.2490	-.3290	-.2950	-.2990	-.3100

MACH (4) = 1.248 ALPHAT(5) = .020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3320	-.3340	-.3100	-.3070	-.2630	-.3300	-.2980	-.2930	-.3180

MACH (4) = 1.244 ALPHAT(6) = 2.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3340	-.3400	-.3160	-.3120	-.2720	-.3250	-.2960	-.2930	-.3160

MACH (4) = 1.248 ALPHAT(7) = 4.020

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3360	-.3410	-.3180	.3190	-.2810	-.3330	-.3050	-.3050	-.3230

AMES 11-707 IA9 C2A + SS + TU CRUT ER DATA

SECTION (1)ORBITER BASE

DEPENDENT VARIABLE CP

MACH (4) = 1.246 ALPHAT(8) = 6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3270	-.3350	-.3150	-.3180	-.2800	-.3250	-.3010	-.3010	-.3210

MACH (4) = 1.246 ALPHAT(9) = 8.010

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A									
.000	-.3290	-.3340	-.3140	-.3120	-.2795	-.3170	-.2950	-.2990	-.3120

AMES 11-7X7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM001) (27 APR 93)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = 1.500
RUDDER = .000 ELEVON = .000
RUDDLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .601 ALPHAT(1) = -9.140

X/LNP	.250	.500	.750
PHI			
.000	-.2900	-.2860	
90.000	-.2950	-.2830	-.2770
135.000	-.2930	-.2820	-.2770
180.000	-.2720	-.2790	-.2740
225.000	-.2890	-.2830	-.2780
270.000	-.2930	-.2810	-.2820

MACH (1) = .598 ALPHAT(2) = -6.130

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2860	
90.000	-.2970	-.2850	-.2790
135.000	-.2970	-.2820	-.2780
180.000	-.2740	-.2800	-.2800
225.000	-.2980	-.2820	-.2820
270.000	-.2960	-.2830	-.2790

MACH (1) = .597 ALPHAT(3) = -4.100

X/LNP	.250	.500	.750
PHI			
.000	-.2870	-.2860	
90.000	-.2980	-.2830	-.2790
135.000	-.2970	-.2820	-.2790
180.000	-.2790	-.2800	-.2770
225.000	-.2970	-.2850	-.2800
270.000	-.2960	-.2870	-.2790

MACH (1) = .599 ALPHAT(4) = -2.060

X/LNP	.250	.500	.750
PHI			
.000	-.2910	-.2760	
90.000	-.2870	-.2780	-.2740
135.000	-.2870	-.2810	-.2740
180.000	-.2730	-.2790	-.2690
225.000	-.2940	-.2790	-.2760
270.000	-.2910	-.2790	-.2790

MACH (1) = .597 ALPHAT(5) = -.060

X/LNP	.250	.500	.750
PHI			
.000	-.2870	-.2790	
90.000	-.2860	-.2800	-.2750
135.000	-.2870	-.2770	-.2760
180.000	-.2740	-.2760	-.2730
225.000	-.2980	-.2800	-.2750

AMES 11-75? 1A9 C2A + S3 + T9 UPPER MPS NOZZLE (RSMDU1)

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .597 ALPHAT(5) = -.060

X/LNP	.250	.500	.750
PHI			
270.000	-.2910	-.2790	-.2750

MACH (1) = .598 ALPHAT(6) = 1.960

X/LNP	.250	.500	.750
PHI			
.000	-.2810	-.2690	
90.000	-.2810	-.2720	-.2710
135.000	-.2860	-.2720	-.2700
180.000	-.2800	-.2720	-.2700
225.000	-.2930	-.2790	-.2780
270.000	-.2840	-.2760	-.2740

MACH (1) = .597 ALPHAT(7) = 3.930

X/LNP	.250	.500	.750
PHI			
.000	-.2740	-.2700	
90.000	-.2750	-.2710	-.2700
135.000	-.2760	-.2700	-.2670
180.000	-.2760	-.2700	-.2760
225.000	-.2900	-.2800	-.2770
270.000	-.2880	-.2780	-.2750

MACH (1) = .600 ALPHAT(8) = 5.900

X/LNP	.250	.500	.750
PHI			
.000	-.2740	-.2680	
90.000	-.2800	-.2750	-.2770
135.000	-.2800	-.2770	-.2730
180.000	-.2790	-.2780	-.2710
225.000	-.2910	-.2860	-.2770
270.000	-.2850	-.2810	-.2710

MACH (1) = .599 ALPHAT(9) = 7.950

X/LNP	.250	.500	.750
PHI			
.000	-.2770	-.2770	
90.000	-.2800	-.2740	-.2820
135.000	-.2820	-.2790	-.2800
180.000	-.2770	-.2770	-.2740
225.000	-.2950	-.2860	-.2810
270.000	-.2910	-.2860	-.2800

MACH (2) = .905 ALPHAT(1) = -8.020

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3290	
90.000	-.3320	.3230	-.3170
135.000	-.3340	-.3200	-.3160
180.000	-.3210	-.3190	-.3210
225.000	-.3330	-.3260	-.3230

AMES 11-7U7 IA' 02A + S3 + T9 UPPER MFS NOZZLE (RBM001)

SECTION (1.MFS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .905 ALPHAT(1) = -8.021

X/LNP	.250	.500	.750
PHI			
270.000	-.3320	-.3170	-.3170

MACH (2) = .899 ALPHAT(2) = -5.960

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.3140	
90.000	-.3180	-.3080	- 3040
135.000	-.3200	-.3030	-.3020
180.000	-.3040	-.3020	-.3020
225.000	-.3210	-.3040	-.3040
270.000	-.3140	-.3090	-.3040

MACH (2) = .898 ALPHAT(3) = -4.000

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3090	
90.000	-.3140	-.3070	-.2940
135.000	-.3130	-.3010	-.2940
180.000	-.3040	-.2950	-.2880
225.000	-.3100	-.3010	-.2930
270.000	-.3090	-.3020	-.2910

MACH (2) = .902 ALPHAT(4) = -1.980

X/LNP	.250	.500	.750
PHI			
.000	-.3000	-.3080	
90.000	-.3020	-.2980	-.2940
135.000	-.3130	-.2990	-.2920
180.000	-.3070	-.2980	-.2890
225.000	-.3120	-.2980	-.2900
270.000	-.3100	-.2980	-.2950

MACH (2) = .902 ALPHAT(5) = .030

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2990	
90.000	-.3010	-.2950	-.2930
135.000	-.3080	-.2970	-.2920
180.000	-.3000	-.2920	-.2920
225.000	-.3080	-.2960	-.2920
270.000	-.3100	-.2990	-.2960

MACH (2) = .901 ALPHAT(6) = 2.100

X/LNP	.250	.500	.750
PHI			
.000	-.3000	-.3020	
90.000	-.3060	-.2960	-.2920
135.000	-.3090	-.3010	-.2900
180.000	-.3030	-.2980	-.2920
225.000	-.3160	-.2980	-.2980

SECTION (1)MFS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = .901 ALPHAT(6) = 2.100

X/LNP	.250	.500	.750
PHI			
270.000	-.3100	-.3000	-.2960

MACH (2) = .899 ALPHAT(7) = 4.030

X/LNP	.250	.500	.750
PHI			
.000	-.3080	-.3020	
90.000	-.3150	-.3020	-.2950
135.000	-.3130	-.3030	-.2960
180.000	-.3080	-.3000	-.2970
225.000	-.3200	-.3000	-.2980
270.000	-.3110	-.3000	-.2920

MACH (2) = .901 ALPHAT(8) = 6.000

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3080	
90.000	-.3170	-.3160	-.3060
135.000	-.3190	-.3160	-.3090
180.000	-.3110	-.3120	-.3090
225.000	-.3260	-.3140	-.3110
270.000	-.3200	-.3130	-.3090

MACH (2) = .902 ALPHAT(9) = 8.030

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3270	
90.000	-.3370	-.3330	-.3180
135.000	-.3420	-.3330	-.3190
180.000	-.3340	-.3230	-.3140
225.000	-.3380	-.3270	-.3180
270.000	-.3390	-.3250	-.3210

MACH (2) = .901 ALPHAT(10) = 10.000

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3260	
90.000	-.3360	-.3330	-.3170
135.000	-.3420	-.3320	-.3230
180.000	-.3380	-.3300	-.3230
225.000	-.3440	-.3360	-.3280
270.000	-.3430	-.3280	-.3310

MACH (3) = 1.104 ALPHAT(1) = -8.010

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3970	
90.000	-.3880	-.3840	-.3740
135.000	-.3820	-.3820	-.3720
180.000	-.1990	-.3820	-.3740
225.000	-.3900	-.3850	-.3760

TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 UPPER MFS NOZZLE (RBM001)

SECTION / 1 MFS NOZZLE

DEPENDENT VARIABLE CP

MACH 3) = 1.104 ALPHAT(1) = -8.010

X/LNP	.250	.500	.750
PHI			
270.000	-.3900	-.3840	-.3790

MACH (3) = 1.101 ALPHAT(2) = -5.990

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.4010	
90.000	-.3860	-.3820	-.3740
135.000	-.3830	-.3710	-.3700
180.000	-.2380	-.3700	-.3700
225.000	-.3870	-.3710	-.3700
270.000	-.3940	-.3790	-.3740

MACH (3) = 1.104 ALPHAT(3) = -3.980

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.3950	
90.000	-.3900	-.3810	-.3720
135.000	-.3830	-.3700	-.3700
180.000	-.2730	-.3700	-.3690
225.000	-.3870	-.3710	-.3700
270.000	-.3930	-.3740	-.3720

MACH (3) = 1.102 ALPHAT(4) = -2.000

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3960	
90.000	-.3900	-.3850	-.3770
135.000	-.3870	-.3770	-.3750
180.000	-.3000	-.3760	-.3780
225.000	-.3900	-.3760	-.3750
270.000	-.3930	-.3820	-.3740

MACH (3) = 1.102 ALPHAT(5) = .030

X/LNP	.250	.500	.750
PHI			
.000	-.3750	-.3930	
90.000	-.3930	-.3910	-.3810
135.000	-.3890	-.3820	-.3750
180.000	-.3320	-.3760	-.3760
225.000	-.3900	-.3760	-.3750
270.000	-.3930	-.3830	-.3830

MACH (3) = 1.101 ALPHAT(6) = 2.010

X/LNP	.250	.500	.750
PHI			
.000	-.3720	-.3840	
90.000	-.3890	-.3840	-.3760
135.000	-.3860	-.3780	-.3730
180.000	-.3460	-.3720	-.3710
225.000	-.3910	-.3750	-.3740

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (3) = 1.101 ALPHAT(6) = 2.010

X/LNP	.250	.500	.750
PHI			
270.000	-.3900	-.3770	-.3760

MACH (3) = 1.102 ALPHAT(7) = 4.020

X/LNP	.250	.500	.750
PHI			
.000	-.3730	-.3830	
90.000	-.3920	-.3850	-.3770
135.000	-.3940	-.3800	-.3760
180.000	-.3660	-.3760	-.3750
225.000	-.3890	-.3770	-.3760
270.000	-.3880	-.3820	-.3760

MACH (3) = 1.105 ALPHAT(8) = 5.980

X/LNP	.250	.500	.750
PHI			
.000	-.3830	-.3930	
90.000	-.3980	-.3870	-.3820
135.000	-.3970	-.3840	-.3810
180.000	-.3720	-.3830	-.3810
225.000	-.3950	-.3850	-.3830
270.000	-.3960	-.3860	-.3820

MACH (3) = 1.102 ALPHAT(9) = 7.980

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.4010	
90.000	-.4000	-.3930	-.3890
135.000	-.4000	-.3920	-.3880
180.000	-.3830	-.3920	-.3850
225.000	-.4000	-.3930	-.3870
270.000	-.4020	-.3930	-.3890

MACH (3) = 1.102 ALPHAT(10) = 9.950

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4110	
90.000	-.4110	-.4070	-.4020
135.000	-.4120	-.4090	-.4000
180.000	-.4010	-.4020	-.3990
225.000	-.4130	-.4040	-.4020
270.000	-.4110	-.4040	-.4040

MACH (4) = 1.250 ALPHAT(1) = -8.000

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3400	
90.000	-.3320	-.3300	-.3280
135.000	-.3300	-.3310	-.3270
180.000	-.1080	-.3130	-.3270
225.000	-.3350	-.3360	-.3280

707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (PBMP01)

SECTION - MPS NOZZLE INDEPENDENT VARIABLE CP

MACH (4) = 1.250 ALPHAT(1) = -5.990

X/LNP	.250	.500	.750
PHI			
270.000	-.3380	-.3330	-.3260

MACH (4) = 1.252 ALPHAT(2) = -5.980

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3370	
90.000	-.3260	-.3240	-.3230
135.000	-.3260	-.3260	-.3210
180.000	-.1330	-.3190	-.3260
225.000	-.3310	-.3280	-.3210
270.000	-.3320	-.3280	-.3210

MACH (4) = 1.248 ALPHAT(3) = -4.030

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3380	
90.000	-.3320	-.3290	-.3220
135.000	-.3270	-.3260	-.3220
180.000	-.1680	-.3260	-.3210
225.000	-.3340	-.3270	-.3210
270.000	-.3330	-.3260	-.3220

MACH (4) = 1.250 ALPHAT(4) = -1.980

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3420	
90.000	-.3350	-.3320	-.3270
135.000	-.3290	-.3270	-.3270
180.000	-.2020	-.3250	-.3270
225.000	-.3360	-.3270	-.3260
270.000	-.3360	-.3280	-.3260

MACH (4) = 1.249 ALPHAT(5) = .040

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3370	
90.000	-.3350	-.3280	-.3300
135.000	-.3350	-.3250	-.3270
180.000	-.2250	-.3250	-.3240
225.000	-.3370	-.3250	-.3270
270.000	-.3370	-.3270	-.3260

MACH (4) = 1.247 ALPHAT(6) = 2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3330	
90.000	-.3340	-.3290	-.3250
135.000	-.3330	-.3250	-.3260
180.000	-.2510	-.3250	-.3240
225.000	-.3320	-.3230	-.3260

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.247 ALPHAT(6) = 2.030

X/LNP	.250	.500	.750
PHI			
270.000	-.3330	-.3240	-.3240

MACH (4) = 1.248 ALPHAT(7) = 4.040

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3310	
90.000	-.3360	-.3300	-.3270
135.000	-.3320	-.3270	-.3250
180.000	-.2830	-.3260	-.3290
225.000	-.3360	-.3250	-.3280
270.000	-.3340	-.3270	-.3300

MACH (4) = 1.247 ALPHAT(8) = 6.010

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3400	
90.000	-.3390	-.3380	-.3360
135.000	-.3360	-.3310	-.3350
180.000	-.3130	-.3300	-.3330
225.000	-.3370	-.3300	-.3340
270.000	-.3410	-.3310	-.3360

MACH (4) = 1.247 ALPHAT(9) = 8.010

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3370	
90.000	-.3390	-.3410	-.3350
135.000	-.3400	-.3380	-.3350
180.000	-.3250	-.3390	-.3350
225.000	-.3390	-.3350	-.3350
270.000	-.3430	-.3340	-.3350

MACH (4) = 1.246 ALPHAT(10) = 9.960

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3470	
90.000	-.3510	-.3470	-.3450
135.000	-.3510	-.3470	-.3450
180.000	-.3340	-.3470	-.3440
225.000	-.3470	-.3460	-.3450
270.000	-.3530	-.3460	-.3440

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBM002) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = .500
RUDDER = .000 ELEVON = .000
FLOFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .598 ALPHAT(1) = -8.020

X/LNP	.250	.500	.750
PHI			
.000	-.2950	-.2880	
90.000	-.3000	-.2900	-.2850
135.000	-.3060	-.2910	-.2860
180.000	-.2810	-.2850	-.2850
225.000	-.2980	-.2850	-.2840
270.000	-.3010	-.2860	-.2830

MACH (1) = .598 ALPHAT(2) = -6.020

X/LNP	.250	.500	.750
PHI			
.000	-.2990	-.2910	
90.000	-.3030	-.2890	-.2870
135.000	-.2970	-.2890	-.2860
180.000	-.2830	-.2900	-.2810
225.000	-.2930	-.2870	-.2820
270.000	-.3030	-.2880	-.2840

MACH (1) = .599 ALPHAT(3) = -3.990

X/LNP	.250	.500	.750
PHI			
.000	-.2860	-.2860	
90.000	-.2910	-.2810	-.2830
135.000	-.2910	-.2840	-.2840
180.000	-.2810	-.2840	-.2800
225.000	-.2990	-.2830	-.2820
270.000	-.2960	-.2830	-.2850

MACH (1) = .598 ALPHAT(4) = -1.910

X/LNP	.250	.500	.750
PHI			
.000	-.2900	-.2820	
90.000	-.2910	-.2840	-.2800
135.000	-.2870	-.2810	-.2810
180.000	-.2750	-.2760	-.2770
225.000	-.2960	-.2810	-.2790
270.000	-.2940	-.2850	-.2820

MACH (1) = .599 ALPHAT(5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2870	-.2830	
90.000	-.2920	-.2830	-.2830
135.000	-.2910	-.2850	-.2770
180.000	-.2750	-.2780	-.2790
225.000	-.3020	-.2840	-.2860

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM002)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .599 ALPHAT(5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.2980	-.2850	-.2830

MACH (1) = .599 ALPHAT(6) = 2.0[illegible]

X/LNP	.250	.500	.750
PHI			
.000	-.2790	-.2780	
90.000	-.2900	-.2790	-.2800
135.000	-.2890	-.2840	-.2800
180.000	-.2820	-.2780	-.2750
225.000	-.2980	-.2840	-.2920
270.000	-.2970	-.2830	-.2740

MACH (1) = .597 ALPHAT(7) = 4.020

X/LNP	.250	.500	.750
PHI			
.000	-.2770	-.2680	
90.000	-.2850	-.2710	-.2750
135.000	-.2870	-.2740	-.2760
180.000	-.2760	-.2750	-.2730
225.000	-.2990	-.2850	-.2820
270.000	-.2840	-.2780	-.2760

MACH (1) = .599 ALPHAT(8) = 6.010

X/LNP	.250	.500	.750
PHI			
.000	-.2800	-.2780	
90.000	-.2900	-.2790	-.2750
135.000	-.2880	-.2830	-.2790
180.000	-.2830	-.2860	-.2770
225.000	-.3010	-.2920	-.2890
270.000	-.2910	-.2800	-.2750

MACH (1) = .597 ALPHAT(9) = 8.000

X/LNP	.250	.500	.75[illegible]
PHI			
.000	-.2860	-.2810	
90.000	-.2920	-.2840	-.2790
135.000	-.2920	-.2850	-.2850
180.000	-.2830	-.2830	-.2780
225.000	-.3020	-.2910	-.2840
270.000	-.2910	-.2860	-.2720

MACH (2) = .903 ALPHAT(1) = -8.000

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3190	
90.000	-.3290	-.3190	-.3170
135.000	-.3390	-.3250	-.3140
180.000	-.3170	-.3180	-.3150
225.000	-.3370	-.3210	-.3150

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MFS NOZZLE (FSM002)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .903 ALPHAT(1) = -8.000

X/LNP	.250	.500	.750
PHI			
270.000	-.3350	-.3250	-.3120

MACH (2) = .901 ALPHAT(2) = -6.020

X/LNP	.250	.500	.750
PHI			
.000	-.3130	-.3100	
90.000	-.3190	-.3100	-.3060
135.000	-.3270	-.3080	-.3040
180.000	-.3130	-.3090	-.3050
225.000	-.3220	-.3070	-.3050
270.000	-.3130	-.3090	-.3050

MACH (2) = .900 ALPHAT(3) = -4.030

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.3080	
90.000	-.3140	-.3050	-.2970
135.000	-.3140	-.3040	-.2970
180.000	-.3020	-.3070	-.2980
225.000	-.3140	-.3080	-.2990
270.000	-.3120	-.3010	-.3010

MACH (2) = .896 ALPHAT(4) = -1.990

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.3030	
90.000	-.3070	-.2970	-.2970
135.000	-.3070	-.3020	-.2990
180.000	-.2920	-.2930	-.2940
225.000	-.3060	-.2960	-.2920
270.000	-.3070	-.3040	-.2950

MACH (2) = .899 ALPHAT(5) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.3040	
90.000	-.3060	-.2960	-.2890
135.000	-.3090	-.2950	-.2940
180.000	-.2960	-.2930	-.2940
225.000	-.3070	-.2930	-.2930
270.000	-.3070	-.2950	-.2940

MACH (2) = .898 ALPHAT(6) = 2.040

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2980	
90.000	-.3020	-.2910	-.2840
135.000	-.3070	-.2970	-.2880
180.000	-.2970	-.2940	-.2870
225.000	-.3060	-.2990	-.2890

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = .898 ALPHAT(6) = 2.040

X/LNP	.250	.500	.750
PHI			
270.000	-.3060	-.2860	-.2960

MACH (2) = .903 ALPHAT(7) = 4.040

X/LNP	.250	.500	.750
PHI			
.000	-.3030	-.2920	
90.000	-.3040	-.2940	-.2910
135.000	-.3040	-.2970	-.2910
180.000	-.3030	-.2940	-.2890
225.000	-.3090	-.3010	-.2900
270.000	-.3000	-.3040	-.2970

MACH (2) = .897 ALPHAT(8) = 6.030

X/LNP	.250	.500	.750
PHI			
.000	-.3080	-.2970	
90.000	-.3070	-.2970	-.2960
135.000	-.2990	-.2940	-.2990
180.000	-.2960	-.2940	-.2950
225.000	-.3140	-.3010	-.2980
270.000	-.3070	-.2980	-.2980

MACH (2) = .900 ALPHAT(9) = 8.000

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.3070	
90.000	-.3140	-.3060	-.3080
135.000	-.3170	-.3130	-.3050
180.000	-.3070	-.3050	-.3040
225.000	-.3230	-.3130	-.3070
270.000	-.3150	-.3110	-.3070

MACH (3) = 1.102 ALPHAT(1) = -8.050

X/LNP	.250	.500	.750
PHI			
.000	-.4000	-.3910	
90.000	-.3920	-.3870	-.3720
135.000	-.3830	-.3850	-.3740
180.000	-.1700	-.3770	-.3780
225.000	-.3910	-.3930	-.3760
270.000	-.3940	-.3880	-.3850

MACH (3) = 1.103 ALPHAT(2) = -6.010

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3900	
90.000	-.3840	-.3770	-.3740
135.000	-.3750	-.3750	-.3700
180.000	-.2080	-.3730	-.3740
225.000	-.3850	-.3770	-.3730

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD02)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.103 ALPHAT(2) = -6.010

X/LNP	.250	.500	.750
PHI			
270.000	-.3870	-.3800	-.3740

MACH (3) = 1.102 ALPHAT(3) = -4.000

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3900	
90.000	-.3860	-.3760	-.3670
135.000	-.3740	-.3690	-.3640
180.000	-.2420	-.3700	-.3620
225.000	-.3830	-.3700	-.3620
270.000	-.3690	-.3740	-.3610

MACH (3) = 1.102 ALPHAT(4) = -1.990

X/LNP	.250	.500	.750
PHI			
.000	-.3780	-.3840	
90.000	-.3820	-.3720	-.3670
135.000	-.3770	-.3720	-.3640
180.000	-.2780	-.3690	-.3590
225.000	-.3800	-.3700	-.3590
270.000	-.3860	-.3730	-.3640

MACH (3) = 1.102 ALPHAT(5) = -.030

X/LNP	.250	.500	.750
PHI			
.000	-.3730	-.3810	
90.000	-.3810	-.3740	-.3700
135.000	-.3800	-.3720	-.3670
180.000	-.3100	-.3680	-.3680
225.000	-.3780	-.3710	-.3660
270.000	-.3850	-.3720	-.3680

MACH (3) = 1.102 ALPHAT(6) = 1.980

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3770	
90.000	-.3750	-.3760	-.3730
135.000	-.3770	-.3680	-.3690
180.000	-.3300	-.3650	-.3640
225.000	-.3770	-.3710	-.3680
270.000	-.3840	-.3710	-.3730

MACH (3) = 1.102 ALPHAT(7) = 3.980

X/LNP	.250	.500	.750
PHI			
.000	-.3630	-.3720	
90.000	-.3770	-.3740	-.3730
135.000	-.3760	-.3730	-.3730
180.000	-.3530	-.3660	-.3690
225.000	-.3840	-.3730	-.3690

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.102 ALPHAT(7) = 3.980

X/LNP	.250	.500	.750
PHI			
270.000	-.3820	-.3750	-.3720

MACH (3) = 1.102 ALPHAT(8) = 5.970

X/LNP	.250	.500	.750
PHI			
.000	-.3650	-.3770	
90.000	-.3750	-.3750	-.3690
135.000	-.3800	-.3710	-.3660
180.000	-.3580	-.3670	-.3650
225.000	-.3840	-.3710	-.3660
270.000	-.3840	-.3710	-.3660

MACH (3) = 1.101 ALPHAT(9) = 7.940

X/LNP	.250	.500	.750
PHI			
.000	-.3820	-.3870	
90.000	-.3840	-.3830	-.3770
135.000	-.3910	-.3820	-.3780
180.000	-.3690	-.3750	-.3780
225.000	-.3890	-.3780	-.3770
270.000	-.3930	-.3770	-.3770

MACH (4) = 1.249 ALPHAT(1) = -6.060

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3460	
90.000	-.3400	-.3390	-.3380
135.000	-.3370	-.3430	-.3320
180.000	-.1020	-.3150	-.3390
225.000	-.3430	-.3450	-.3380
270.000	-.3430	-.3430	-.3390

MACH (4) = 1.248 ALPHAT(2) = -6.020

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3380	
90.000	-.3250	-.3270	-.3210
135.000	-.3260	-.3280	-.3190
180.000	-.1130	-.3150	-.3230
225.000	-.3260	-.3290	-.3220
270.000	-.3330	-.3280	-.3220

MACH (4) = 1.249 ALPHAT(3) = -3.980

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3300	
90.000	-.3260	-.3230	-.3190
135.000	-.3220	-.3230	-.3170
180.000	-.1420	-.3180	-.3170
225.000	-.3240	-.3180	-.3170

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD02)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.249 ALPHAT(3) = -3.980

X/LNP	.250	.500	.750
PHI			
270.000	-.3280	-.3200	-.3160

MACH (4) = 1.245 ALPHAT(4) = -1.950

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3310	
90.000	-.3220	-.3190	-.3160
135.000	-.3200	-.3170	-.3130
180.000	-.1820	-.3180	-.3180
225.000	-.3230	-.3190	-.3160
270.000	-.3280	-.3190	-.3150

MACH (4) = 1.246 ALPHAT(5) = .040

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3320	
90.000	-.3310	-.3240	-.3160
135.000	-.3290	-.3190	-.3170
180.000	-.2060	-.3220	-.3170
225.000	-.3290	-.3240	-.3170
270.000	-.3310	-.3220	-.3160

MACH (4) = 1.244 ALPHAT(6) = 2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3280	
90.000	-.3310	-.3220	-.3200
135.000	-.3260	-.3190	-.3210
180.000	-.2380	-.3220	-.3200
225.000	-.3310	-.3240	-.3210
270.000	-.3270	-.3210	-.3200

MACH (4) = 1.245 ALPHAT(7) = 3.970

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3320	
90.000	-.3330	-.3320	-.3230
135.000	-.3350	-.3260	-.3240
180.000	-.2690	-.3250	-.3240
225.000	-.3320	-.3240	-.3260
270.000	-.3300	-.3240	-.3240

MACH (4) = 1.245 ALPHAT(8) = 5.990

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3380	
90.000	-.3390	-.3350	-.3300
135.000	-.3370	-.3330	-.3320
180.000	-.3010	-.3320	-.3280
225.000	-.3390	-.3300	-.3290

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (4) = 1.245 ALPHAT(8) = 5.990

X/LNP	.250	.500	.750
PHI			
270.000	-.3390	-.3310	-.3290

MACH (4) = 1.247 ALPHAT(9) = 7.980

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3330	
90.000	-.3320	-.3310	-.3310
135.000	-.3310	-.3310	-.3310
180.000	-.3130	-.3300	-.3300
225.000	-.3320	-.3300	-.3310
270.000	-.3320	-.3310	-.3290

MACH (5) = 1.401 ALPHAT(1) = -8.050

X/LNP	.250	.500	.750
PHI			
.000	-.2930	-.2960	
90.000	-.2970	-.2950	-.2940
135.000	-.3110	-.3030	-.3000
180.000	-.0020	-.1880	-.3060
225.000	-.3170	-.3060	-.3010
270.000	-.2960	-.2940	-.2940

MACH (5) = 1.396 ALPHAT(2) = -5.970

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2990	
90.000	-.2990	-.2970	-.2950
135.000	-.3090	-.3080	-.3010
180.000	-.0420	-.2050	-.3040
225.000	-.3150	-.3060	-.2970
270.000	-.2980	-.2970	-.2930

MACH (5) = 1.396 ALPHAT(3) = -3.980

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.3020	
90.000	-.3000	-.2980	-.2960
135.000	-.3050	-.3090	-.2980
180.000	-.0750	-.2270	-.3030
225.000	-.3110	-.3040	-.2990
270.000	-.3000	-.2970	-.2960

MACH (5) = 1.396 ALPHAT(4) = -1.990

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.3010	
90.000	-.2990	-.2980	-.2990
135.000	-.3030	-.3080	-.3020
180.000	-.0970	-.2490	-.3040
225.000	-.3130	-.3080	-.2990

AMES 11-7D7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD02)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (5) = 1.396 ALPHAT(4) = -1.990

X/LNP	.250	.500	.750
PHI			
270.000	-.3010	-.2980	-.2990

MACH (5) = 1.398 ALPHAT(5) = .040

X/LNP	.250	.500	.750
PHI			
.000	-.3000	-.3030	
90.000	-.3040	-.3030	-.3000
135.000	-.3030	-.3130	-.3050
180.000	-.1120	-.2500	-.3080
225.000	-.3130	-.3120	-.3050
270.000	-.3050	-.3020	-.2980

MACH (5) = 1.393 ALPHAT(6) = 2.000

X/LNP	.250	.500	.750
PHI			
.000	-.3050	-.3030	
90.000	-.3080	-.3020	-.3010
135.000	-.3070	-.3130	-.3030
180.000	-.1320	-.2800	-.3060
225.000	-.3090	-.3080	-.3010
270.000	-.3040	-.3020	-.3020

MACH (5) = 1.394 ALPHAT(7) = 3.960

X/LNP	.250	.500	.750
PHI			
.000	-.3070	-.3080	
90.000	-.3100	-.3100	-.3100
135.000	-.3100	-.3150	-.3090
180.000	-.1380	-.2930	-.3090
225.000	-.3150	-.3140	-.3070
270.000	-.3120	-.3080	-.3060

MACH (5) = 1.396 ALPHAT(8) = 6.030

X/LNP	.250	.500	.750
PHI			
.000	-.3050	-.3080	
90.000	-.3150	-.3090	-.3070
135.000	-.3120	-.3130	-.3110
180.000	-.1520	-.3050	-.3100
225.000	-.3120	-.3140	-.3060
270.000	-.3120	-.3080	-.3070

MACH (5) = 1.391 ALPHAT(9) = 7.990

X/LNP	.250	.500	.750
PHI			
.000	-.3130	-.3130	
90.000	-.3190	-.3150	-.3110
135.000	-.3160	-.3140	-.3110
180.000	-.1820	-.3130	-.3110
225.000	-.3200	-.3120	-.3110

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM002)

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (5) = 1.391 ALPHAT(9) = 7.995

X/LNP	.250	.500	.750
PHI			
270.000	-.3170	-.3140	-.3100

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD03) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA* = -8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDF_R = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.050

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3280	
90.000	-.3260	-.3220	-.3180
135.000	-.3370	-.3210	-.3210
180.000	-.2390	-.3200	-.3180
225.000	-.3470	-.3290	-.3230
270.000	-.3420	-.3270	-.3180

MACH (1) = .598 BETAT (2) = -6.030

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3200	
90.000	-.3220	-.3140	-.3070
135.000	-.3270	-.3100	-.3060
180.000	-.2440	-.3070	-.3110
225.000	-.3350	-.3140	-.3080
270.000	-.3340	-.3160	-.3090

MACH (1) = .596 BETAT (3) = -4.020

X/LNP	.250	.500	.750
PHI			
.000	-.3160	-.3090	
90.000	-.3120	-.3010	-.2980
135.000	-.3130	-.3000	-.2940
180.000	-.2720	-.2990	-.2950
225.000	-.3250	-.3030	-.2980
270.000	-.3230	-.3050	-.2970

MACH (1) = .598 BETAT (4) = -2.000

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3120	
90.000	-.3120	-.2990	-.2890
135.000	-.3100	-.2990	-.2940
180.000	-.2890	-.2980	-.2910
225.000	-.3130	-.3000	-.2950
270.000	-.3180	-.3010	-.2940

MACH (1) = .598 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2910	-.2920	
90.000	-.3030	-.2920	-.2880
135.000	-.3050	-.2900	-.2870
180.000	-.2820	-.2820	-.2840
225.000	-.3030	-.2890	-.2850

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBM003)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.3070	-.2900	-.2870

MACH (1) = .598 BETAT (6) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.3010	-.2940	
90.000	-.3040	-.2920	-.2870
135.000	-.2980	-.2880	-.2870
180.000	-.2750	-.2850	-.2860
225.000	-.3000	-.2920	-.2860
270.000	-.3040	-.2890	-.2870

MACH (1) = .598 BETAT (7) = 4.100

X/LNP	.250	.500	.750
PHI			
.000	-.2990	-.2950	
90.000	-.3070	-.2950	-.2880
135.000	-.3040	-.2950	-.2910
180.000	-.2850	-.2900	-.2900
225.000	-.3120	-.2950	-.2900
270.000	-.3030	-.2920	-.2870

MACH (1) = .598 BETAT (8) = 6.140

X/LNP	.250	.500	.750
PHI			
.000	-.3020	-.2960	
90.000	-.3120	-.2970	-.2910
135.000	-.3000	-.2970	-.2910
180.000	-.2780	-.2970	-.2900
225.000	-.3180	-.2950	-.2970
270.000	-.3040	-.2950	-.2890

MACH (1) = .599 BETAT (9) = 8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3020	
90.000	-.3190	-.3040	-.2990
135.000	-.3190	-.3040	-.3010
180.000	-.2480	-.3000	-.2990
225.000	-.3300	-.3010	-.3000
270.000	-.3130	-.3010	-.2990

MACH (2) = .901 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3740	
90.000	-.3720	-.3630	-.3610
135.000	-.3710	-.3630	-.3570
180.000	-.3460	-.3800	-.3640
225.000	-.4010	-.3950	-.3760

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7?7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RPMD03)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
270.000	-.3780	-.3680	-.3540

MACH (2) = .900 BETAT (2) = -6.100

X/LNP	.250	.500	.750
PHI			
.000	-.3660	-.3640	
90.000	-.3540	-.3530	-.3480
135.000	-.3540	-.3540	-.3440
180.000	-.3230	-.3560	-.3480
225.000	-.3760	-.3710	-.3490
270.000	-.3660	-.3660	-.3470

MACH (2) = .900 BETAT (3) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3480	-.3480	
90.000	-.3410	-.3320	-.3310
135.000	-.3430	-.3400	-.3310
180.000	-.3210	-.3370	-.3300
225.000	-.3620	-.3400	-.3310
270.000	-.3525	-.3430	-.3310

MACH (2) = .898 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3170	
90.000	-.3260	-.3150	-.3110
135.000	-.3290	-.3220	-.3130
180.000	-.3100	-.3180	-.3160
225.000	-.3320	-.3210	-.3170
270.000	-.3320	-.3180	-.3160

MACH (2) = .899 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3240	
90.000	-.3290	-.3170	-.311C
135.000	-.3340	-.3210	-.311C
180.000	-.3150	-.3200	-.3110
225.000	-.3320	-.3240	-.3120
270.000	-.3330	-.3200	-.3130

MACH (2) = .898 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3380	-.3290	
90.000	-.3400	-.3320	-.3240
135.000	-.3500	-.3300	-.3240
180.000	-.3260	-.3230	-.3260
225.000	-.3380	-.3290	-.3220

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .898 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
270.000	-.3320	-.3270	-.3200

MACH (2) = .901 BETAT (7) = 6.210

X/LNP	.250	.500	.750
PHI			
.000	-.3550	-.3480	
90.000	-.3590	-.3390	-.3350
135.000	-.3730	-.3590	-.3410
180.000	-.3280	-.3530	-.3410
225.000	-.3580	-.3520	-.3390
270.000	-.3480	-.3390	-.3370

MACH (2) = .900 BETAT (8) = 8.270

X/LNP	.250	.500	.750
PHI			
.000	-.3600	-.3590	
90.000	-.3580	-.3600	-.3450
135.000	-.3910	-.3820	-.3640
180.000	-.3110	-.3650	-.3560
225.000	-.3650	-.3590	-.3490
270.000	-.3690	-.3570	-.3490

MACH (3) = 1.101 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
.000	-.4030	-.4120	
90.000	-.4070	-.4090	-.4090
135.000	-.4160	-.4180	-.4100
180.000	-.2790	-.3800	-.4080
225.000	-.4340	-.4100	-.4130
270.000	-.4300	-.4100	-.4030

MACH (3) = 1.100 BETAT (2) = -6.120

X/LNP	.250	.500	.750
PHI			
.000	-.4010	-.4080	
90.000	-.3970	-.3960	-.3900
135.000	-.4010	-.3990	-.3910
180.000	-.2510	-.3790	-.3890
225.000	-.4300	-.4010	-.3980
270.000	-.4140	-.4070	-.3910

MACH (3) = 1.102 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.4040	-.4080	
90.000	-.3970	-.3930	-.3850
135.000	-.3970	-.3940	-.3900
180.000	-.2360	-.3830	-.3890
225.000	-.4280	-.3940	-.3930

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (R9M003)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CF

MACH (3) = 1.102 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
270.000	-.4080	-.3990	-.3910

MACH (3) = 1.100 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.4020	
90.000	-.3930	-.3870	-.3800
135.000	-.3750	-.3820	-.3820
180.000	-.2090	-.3820	-.3760
225.000	-.4000	-.3880	-.3780
270.000	-.3930	-.3880	-.3780

MACH (3) = 1.099 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.3980	
90.000	-.3920	-.3880	-.3810
135.000	-.3840	-.3890	-.3790
180.000	-.1680	-.3810	-.3830
225.000	-.3930	-.3880	-.3840
270.000	-.3950	-.3880	-.3840

MACH (3) = 1.101 BETAT (6) = 2.090

X/LNP	.250	.500	.750
PHI			
.000	-.3940	-.3940	
90.000	-.3880	-.3885	-.3780
135.000	-.3940	-.3810	-.3830
180.000	-.1720	-.3810	-.3780
225.000	-.3860	-.3780	-.3790
270.000	-.3940	-.3780	-.3750

MACH (3) = 1.100 BETAT (7) = 4.160

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.3970	
90.000	-.4040	-.3950	-.3890
135.000	-.4170	-.3900	-.3890
180.000	-.1740	-.3850	-.3870
225.000	-.3900	-.3930	-.3870
270.000	-.3950	-.3910	-.3850

MACH (3) = 1.103 BETAT (8) = 6.240

X/LNP	.250	.500	.750
PHI			
.000	-.4000	-.3980	
90.000	-.4080	-.4050	-.3910
135.000	-.4200	-.4000	-.3910
180.000	-.1610	-.3770	-.3920
225.000	-.4030	-.4040	-.3970

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMC03)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.103 BETAT (8) = 6.240

X/LNP	.250	.500	.750
PHI			
270.000	-.3890	-.3930	-.3880

MACH (3) = 1.101 BETAT (9) = 7.800

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4060	
90.000	-.4130	-.4140	-.3990
135.000	-.4260	-.4070	-.4030
180.000	-.2510	-.3580	-.4020
225.000	-.4250	-.4190	-.4050
270.000	-.4000	-.4030	-.4050

MACH (4) = 1.248 BETAT (1) = -8.130

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3290	
90.000	-.3300	-.3300	-.3360
135.000	-.3590	-.3520	-.3420
180.000	-.1970	-.2680	-.3380
225.000	-.3700	-.3410	-.3380
270.000	-.3540	-.3400	-.3350

MACH (4) = 1.249 BETAT (2) = -6.080

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3290	
90.000	-.3250	-.3280	-.3330
135.000	-.3520	-.3360	-.3330
180.000	-.1700	-.2590	-.3330
225.000	-.3600	-.3330	-.3270
270.000	-.3570	-.3330	-.3230

MACH (4) = 1.245 BETAT (3) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3400	
90.000	-.3290	-.3300	-.3270
135.000	-.3480	-.3330	-.3310
180.000	-.1380	-.2840	-.3300
225.000	-.3550	-.3410	-.3270
270.000	-.3380	-.3380	-.3280

MACH (4) = 1.246 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3410	-.3440	
90.000	-.3350	-.3320	-.3310
135.000	-.3490	-.3330	-.3290
180.000	-.1220	-.3050	-.3310
225.000	-.3420	-.3430	-.3300

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM003)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.246 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
270.000	-.3320	-.3380	-.3290

MACH (4) = 1.247 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3290	
90.000	-.3180	-.3240	-.3180
135.000	-.3230	-.3240	-.3240
180.000	-.0940	-.2940	-.3240
225.000	-.3320	-.3320	-.3240
270.000	-.3240	-.3240	-.3230

MACH (4) = 1.247 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3270	
90.000	-.3220	-.3240	-.3190
135.000	-.3410	-.3300	-.3220
180.000	-.1370	-.2570	-.3220
225.000	-.3360	-.3320	-.3260
270.000	-.3190	-.3190	-.3210

MACH (4) = 1.248 BETAT (7) = 6.190

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3180	
90.000	-.3310	-.3280	-.3210
135.000	-.3500	-.3300	-.3230
180.000	-.1200	-.1950	-.3270
225.000	-.3490	-.3360	-.3280
270.000	-.3150	-.3170	-.3210

MACH (4) = 1.251 BETAT (8) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3270	
90.000	-.3500	-.3410	-.3320
135.000	-.3740	-.3390	-.3360
180.000	-.1010	-.2070	-.3360
225.000	-.3690	-.3540	-.3490
270.000	-.3230	-.3280	-.3290

REFERENCE DATA

SREF	=	2.4210	Sq.FT.	XMRP =	28.5300 INCHES
LREF	=	39.8490	INCHES	YMRP =	.0000 INCHES
BREF	=	39.8490	INCHES	ZMRP =	.0000 INCHES
SCALE	=	.0300	SCALE		

PARAMETRIC DATA

ALPHAT =	-6.000	ORBINC =	.500
RUDDER =	.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (1) = -8.060

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3310	
90.000	-.3340	-.3280	-.3240
135.000	-.3370	-.3270	-.3210
180.000	-.2770	-.3320	-.3200
225.000	-.3610	-.3380	-.3300
270.000	-.3490	-.3320	-.3250

MACH (1) = .597 BETAT (2) = -6.040

X/LNP	.250	.500	.750
PHI			
.000	-.3160	-.3120	
90.000	-.3150	-.3080	-.3030
135.000	-.3190	-.3030	-.3000
180.000	-.2530	-.3060	-.3020
225.000	-.3270	-.3170	-.3110
270.000	-.3260	-.3140	-.3090

MACH (1) = .599 BETAT (3) = -4.020

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.3110	
90.000	-.3080	-.3020	-.2950
135.000	-.2980	-.2990	-.2940
180.000	-.2810	-.2990	-.2910
225.000	-.3170	-.3010	-.3000
270.000	-.3120	-.3000	-.3010

MACH (1) = .599 BETAT (4) = -2.000

X/LNP	.250	.500	.750
PHI			
.000	-.3020	-.2970	
90.000	-.3050	-.2920	-.2850
135.000	-.3070	-.2950	-.2920
180.000	-.2910	-.2900	-.2880
225.000	-.3060	-.2990	-.2910
270.000	-.3060	-.2970	-.2930

MACH (1) = .600 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2960	-.2960	
90.000	-.3020	-.2910	-.2910
135.000	-.3030	-.2920	-.2880
180.000	-.2870	-.2890	-.2890
225.000	-.3060	-.29	-.2910

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD04)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .600 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.3070	-.2950	-.2910

MACH (1) = .599 BETAT (6) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.2960	-.2890	
90.000	-.3030	-.2870	-.2860
135.000	-.2950	-.2890	-.2800
180.000	-.2820	-.2870	-.2830
225.000	-.3110	-.2890	-.2900
270.000	-.3000	-.2850	-.2870

MACH (1) = .599 BETAT (7) = 4.090

X/LNP	.250	.500	.750
PHI			
.000	-.2950	-.2870	
90.000	-.2980	-.2880	-.2850
135.000	-.3020	-.2860	-.2850
180.000	-.2830	-.2850	-.2900
225.000	-.3060	-.2920	-.2890
270.000	-.2990	-.2890	-.2880

MACH (1) = .600 BETAT (8) = 6.120

X/LNP	.250	.500	.750
PHI			
.000	-.3030	-.2910	
90.000	-.3060	-.2920	-.2920
135.000	-.3060	-.2980	-.2920
180.000	-.2840	-.2950	-.2910
225.000	-.3140	-.2970	-.2970
270.000	-.3030	-.2930	-.2890

MACH (1) = .601 BETAT (9) = 8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3070	
90.000	-.3220	-.3090	-.2970
135.000	-.3250	-.3120	-.3060
180.000	-.2410	-.3080	-.3030
225.000	-.3210	-.3070	-.3050
270.000	-.3140	-.3060	-.3070

MACH (2) = .699 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3780	-.3690	
90.000	-.3600	-.3590	-.3540
135.000	-.3630	-.3600	-.3560
180.000	-.3290	-.3700	-.3600
225.000	-.4030	-.3930	-.3670

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = .899 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
270.000	-.3740	-.3680	-.3530

MACH (2) = .897 BETAT (2) = -6.100

X/LNP	.250	.500	.750
PHI			
.000	-.3580	-.3490	
90.000	-.3430	-.3340	-.3330
135.000	-.3500	-.3420	-.3360
180.000	-.3300	-.3510	-.3430
225.000	-.3600	-.3600	-.3430
270.000	-.3520	-.3470	-.3390

MACH (2) = .902 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3440	
90.000	-.3380	-.3330	-.3270
135.000	-.3410	-.3330	-.3380
180.000	-.3210	-.3370	-.3370
225.000	-.3480	-.3410	-.3410
270.000	-.3430	-.3360	-.3350

MACH (2) = .900 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3210	
90.000	-.3240	-.3150	-.3110
135.000	-.3340	-.3230	-.3150
180.000	-.3150	-.3200	-.3140
225.000	-.3320	-.3210	-.3170
270.000	-.3290	-.3150	-.3100

MACH (2) = .902 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3310	
90.000	-.3350	-.3180	-.3160
135.000	-.3280	-.3210	-.3170
180.000	-.3170	-.3160	-.3170
225.000	-.3370	-.3260	-.3200
270.000	-.3300	-.3250	-.3140

MACH (2) = .903 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3350	-.3340	
90.000	-.3350	-.3320	-.3280
135.000	-.3540	-.3280	-.3300
180.000	-.3280	-.3380	-.3310
225.000	-.3480	-.3320	-.3350

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD04)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .903 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
270.000	-.3340	-.3260	-.3300

MACH (2) = .900 BETAT (7) = 6.190

X/LNP	.250	.500	.750
PHI			
.000	-.3620	-.3550	
90.000	-.3630	-.3480	-.3380
135.000	-.3700	-.3530	-.3380
180.000	-.3200	-.3510	-.3410
225.000	-.3510	-.3460	-.3400
270.000	-.3470	-.3340	-.3240

MACH (2) = .898 BETAT (8) = 8.240

X/LNP	.250	.500	.750
PHI			
.000	-.3680	-.3500	
90.000	-.3580	-.3540	-.3380
135.000	-.3820	-.3780	-.3450
180.000	-.3220	-.3610	-.3470
225.000	-.3610	-.3500	-.3490
270.000	-.3470	-.3490	-.3500

MACH (3) = 1.100 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.4000	
90.000	-.3960	-.3970	-.3920
135.000	-.4100	-.3990	-.3880
180.000	-.2500	-.3810	-.3900
225.000	-.4180	-.4020	-.3970
270.000	-.4160	-.4040	-.3950

MACH (3) = 1.099 BETAT (2) = -6.120

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.4000	
90.000	-.3940	-.3910	-.3870
135.000	-.3870	-.3950	-.3890
180.000	-.2720	-.3910	-.3880
225.000	-.4160	-.3950	-.3920
270.000	-.4100	-.4080	-.3880

MACH (3) = 1.101 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4050	
90.000	-.3940	-.3920	-.3860
135.000	-.3870	-.3840	-.3840
180.000	-.2740	-.3820	-.3850
225.000	-.4170	-.3940	-.3910

AMES 11-707

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
270.000	-.4060	-.3950	-.3880

MACH (3) = 1.101 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.4030	-.4030	
90.000	-.3950	-.3880	-.3790
135.000	-.3810	-.3870	-.3810
180.000	-.2450	-.3870	-.3810
225.000	-.4060	-.3860	-.3810
270.000	-.3960	-.3890	-.3810

MACH (3) = 1.099 BETAT (5) = 2.090

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.3910	
90.000	-.3890	-.3840	-.3700
135.000	-.3960	-.3760	-.3670
180.000	-.2210	-.3780	-.3670
225.000	-.3790	-.3690	-.3680
270.000	-.3830	-.3730	-.3690

MACH (3) = 1.098 BETAT (6) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.3970	-.3970	
90.000	-.4010	-.3970	-.3780
135.000	-.4060	-.3890	-.3740
180.000	-.1940	-.3860	-.3830
225.000	-.3920	-.3820	-.3820
270.000	-.3940	-.3860	-.3840

MACH (3) = 1.100 BETAT (7) = 6.210

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.3930	
90.000	-.4120	-.3940	-.3880
135.000	-.4150	-.3960	-.3890
180.000	-.1870	-.3830	-.3890
225.000	-.3930	-.4010	-.3910
270.000	-.3910	-.3880	-.3840

MACH (3) = 1.098 BETAT (8) = 8.290

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.3910	
90.000	-.4200	-.4030	-.3880
135.000	-.4250	-.4000	-.3910
180.000	-.1960	-.3810	-.3940
225.000	-.4090	-.4090	-.3880

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC04)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.098 BETAT (8) = 8.290

X/LNP	.250	.500	.750
PHI			
270.000	-.3910	-.3910	-.3880

MACH (4) = 1.248 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3250	
90.000	-.3230	-.3240	-.3240
135.000	-.3620	-.3360	-.3320
180.000	-.1820	-.2480	-.3310
225.000	-.3620	-.3290	-.3300
270.000	-.3480	-.3350	-.3270

MACH (4) = 1.246 BETAT (2) = -6.100

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3320	
90.000	-.3240	-.3260	-.3280
135.000	-.3530	-.3320	-.3320
180.000	-.1520	-.2680	-.3300
225.000	-.3670	-.3330	-.3290
270.000	-.3460	-.3380	-.3270

MACH (4) = 1.244 BETAT (3) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3330	
90.000	-.3220	-.3230	-.3190
135.000	-.3370	-.3220	-.3240
180.000	-.1430	-.3060	-.3180
225.000	-.3540	-.3270	-.3190
270.000	-.3370	-.3310	-.3240

MACH (4) = 1.247 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3350	-.3380	
90.000	-.3320	-.3250	-.3200
135.000	-.3515	-.3230	-.3230
180.000	-.1445	-.3110	-.3220
225.000	-.3410	-.3310	-.3240
270.000	-.3270	-.3290	-.3280

MACH (4) = 1.245 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3220	
90.000	-.3190	-.3200	-.3180
135.000	-.3250	-.3190	-.3150
180.000	-.1100	-.3100	-.3140
225.000	-.3220	-.3180	-.3130

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.245 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
270.000	-.3200	-.3170	-.3130

MACH (4) = 1.248 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3300	
90.000	-.3340	-.3290	-.3230
135.000	-.3490	-.3300	-.3240
180.000	-.0820	-.2840	-.3210
225.000	-.3400	-.3300	-.3220
270.000	-.3230	-.3210	-.3160

MACH (4) = 1.245 BETAT (7) = 6.170

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3230	
90.000	-.3400	-.3330	-.3240
135.000	-.3620	-.3330	-.3280
180.000	-.1040	-.1960	-.3260
225.000	-.3550	-.3360	-.3290
270.000	-.3190	-.3190	-.3190

MACH (4) = 1.245 BETAT (8) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3150	
90.000	-.3380	-.3240	-.3190
135.000	-.3510	-.3230	-.3180
180.000	-.0890	-.1470	-.3220
225.000	-.3520	-.3320	-.3190
270.000	-.3080	-.3100	-.3100

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .600 BETAT (1) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2920	-.2930	
90.000	-.2980	-.2890	-.2830
135.000	-.3000	-.2850	-.2800
180.000	-.2850	-.2830	-.2820
225.000	-.3050	-.2840	-.2820
270.000	-.3010	-.2860	-.2920

MACH (1) = .596 BETAT (2) = 4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2890	
90.000	-.3030	-.2880	-.2870
135.000	-.2990	-.2920	-.2830
180.000	-.2900	-.2900	-.2830
225.000	-.3120	-.2950	-.2910
270.000	-.3010	-.2870	-.2840

MACH (1) = .599 BETAT (3) = 6.120

X/LNP	.250	.500	.750
PHI			
.000	-.3050	-.2950	
90.000	-.3130	-.3010	-.2910
135.000	-.3070	-.3000	-.2950
180.000	-.2940	-.3000	-.2880
225.000	-.3150	-.3020	-.3000
270.000	-.3060	-.2970	-.2920

MACH (1) = .599 BETAT (4) = 8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3120	-.2980	
90.000	-.3220	-.3010	-.2990
135.000	-.3230	-.3080	-.3030
180.000	-.2670	-.3110	-.3040
225.000	-.3200	-.3070	-.3030
270.000	-.3140	-.3070	-.3090

MACH (2) = .903 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
.000	-.3560	-.3600	
90.000	-.3460	-.3530	-.3500
135.000	-.3550	-.3570	-.3550
180.000	-.3150	-.3610	-.3570
225.000	-.3830	-.3620	-.3580

AMES 11-707 IA9 OEA + S3 + T9 UPPER MPS NOZZLE (RBM005)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .903 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
270.000	-.3630	-.3570	-.3520

MACH (2) = .901 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3570	-.3480	
90.000	-.3400	-.3330	-.3300
135.000	-.3450	-.3410	-.3390
180.000	-.3270	-.3510	-.3380
225.000	-.3620	-.3470	-.3400
270.000	-.3510	-.3480	-.3320

MACH (2) = .902 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3410	-.3330	
90.000	-.3260	-.3200	-.3140
135.000	-.3410	-.3300	-.3200
180.000	-.3310	-.3370	-.3190
225.000	-.3410	-.3300	-.3210
270.000	-.3360	-.3300	-.3210

MACH (2) = .901 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3220	
90.000	-.3290	-.3190	-.3050
135.000	-.3320	-.3180	-.3030
180.000	-.3060	-.3090	-.3020
225.000	-.3290	-.3140	-.3050
270.000	-.3250	-.3090	-.3060

MACH (2) = .903 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3160	-.3110	
90.000	-.3230	-.3130	-.3080
135.000	-.3140	-.3150	-.3110
180.000	-.3100	-.3120	-.3130
225.000	-.3300	-.3130	-.3200
270.000	-.3210	-.3060	-.3100

MACH (2) = .900 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3160	
90.000	-.3330	-.3190	-.3240
135.000	-.3310	-.3250	-.3170
180.000	-.3270	-.3290	-.3210
225.000	-.3420	-.3210	-.3230

AMES 11-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBM005)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
270.000	-.3210	-.3120	-.3170

MACH (2) = .904 BETAT (7) = 6.170

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3330	
90.000	-.3260	-.3320	-.3320
135.000	-.3440	-.3360	-.3330
180.000	-.3070	-.3330	-.3370
225.000	-.3460	-.3360	-.3400
270.000	-.3340	-.3350	-.3300

MACH (2) = .899 BETAT (8) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3580	-.3440	
90.000	-.3500	-.3440	-.3280
135.000	-.3730	-.3490	-.3340
180.000	-.2740	-.3470	-.3420
225.000	-.3520	-.3470	-.3420
270.000	-.3480	-.3350	-.3430

MACH (3) = 1.100 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3890	
90.000	-.3880	-.3840	-.3800
135.000	-.4010	-.3890	-.3800
180.000	-.2390	-.3920	-.3810
225.000	-.4060	-.3910	-.3890
270.000	-.4030	-.3900	-.3820

MACH (3) = 1.097 BETAT (2) = -6..30

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.3950	
90.000	-.3850	-.3820	-.3740
135.000	-.3760	-.3800	-.3710
180.000	-.2770	-.3870	-.3760
225.000	-.4020	-.3860	-.3820
270.000	-.3980	-.3900	-.3790

MACH (3) = 1.101 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3940	-.4050	
90.000	-.3930	-.3910	-.3750
135.000	-.3860	-.3870	-.3760
180.000	-.3060	-.3830	-.3790
225.000	-.4030	-.3820	-.3760

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM005)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
270.000	-.3990	-.3910	-.3800

MACH (3) = 1.099 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.3970	
90.000	-.3950	-.3890	-.3770
135.000	-.3880	-.3820	-.3720
180.000	-.2770	-.3800	-.3740
225.000	-.4020	-.3790	-.3760
270.000	-.3920	-.3870	-.3820

MACH (3) = 1.101 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3970	
90.000	-.3860	-.3840	-.3700
135.000	-.3850	-.3730	-.3730
180.000	-.2560	-.3720	-.3740
225.000	-.3850	-.3690	-.3730
270.000	-.3850	-.3710	-.3730

MACH (3) = 1.102 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3830	-.3970	
90.000	-.3930	-.3900	-.3850
135.000	-.3920	-.3850	-.3850
180.000	-.2260	-.3890	-.3800
225.000	-.3910	-.3790	-.3820
270.000	-.3930	-.3800	-.3840

MACH (3) = 1.100 BETAT (7) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3910	
90.000	-.3950	-.3890	-.3820
135.000	-.3970	-.3790	-.3820
180.000	-.2120	-.3840	-.3810
225.000	-.3850	-.3830	-.3820
270.000	-.3870	-.3820	-.3810

MACH (3) = 1.100 BETAT (8) = 8.270

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3840	
90.000	-.4020	-.3910	-.3780
135.000	-.4020	-.3900	-.3770
180.000	-.1640	-.3690	-.3790
225.000	-.3910	-.3900	-.3790

AMES 11-7X7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD05)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (8) = 8.270

X/LNP	.250	.500	.750
PHI			
270.000	-.3840	-.3800	-.3710

MACH (4) = 1.245 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3250	
90.000	-.3230	-.3270	-.3210
135.000	-.3640	-.3380	-.3320
180.000	-.1760	-.2880	-.3250
225.000	-.3570	-.3280	-.3280
270.000	-.3500	-.3360	-.3270

MACH (4) = 1.245 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3290	
90.000	-.3190	-.3210	-.3190
135.000	-.3480	-.3250	-.3240
180.000	-.1520	-.2990	-.3200
225.000	-.3580	-.3250	-.3220
270.000	-.3440	-.3300	-.3220

MACH (4) = 1.245 BETAT (3) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3290	
90.000	-.3210	-.3210	-.3170
135.000	-.3230	-.3200	-.3180
180.000	-.1830	-.3170	-.3150
225.000	-.3470	-.3200	-.3180
270.000	-.3360	-.3240	-.3170

MACH (4) = 1.246 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3360	
90.000	-.3260	-.3250	-.3190
135.000	-.3250	-.3230	-.3160
180.000	-.1780	-.3190	-.3200
225.000	-.3380	-.3190	-.3210
270.000	-.3280	-.3290	-.3230

MACH (4) = 1.243 BETAT (5) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.3160	-.3240	
90.000	-.3200	-.3170	-.3120
135.000	-.3310	-.3120	-.3120
180.000	-.1310	-.3120	-.3100
225.000	-.3230	-.3120	-.3060

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD05)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.243 BETAT (5) = 2.060

X/LNP	.250	.500	.750
PHI			
270.000	-.3180	-.3120	-.3110

MACH (4) = 1.241 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3200	
90.000	-.3300	-.3200	-.3170
135.000	-.3340	-.3130	-.3170
180.000	-.0990	-.2980	-.3100
225.000	-.3260	-.3200	-.3100
270.000	-.3130	-.3150	-.3080

MACH (4) = 1.244 BETAT (7) = 6.160

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3190	
90.000	-.3380	-.3230	-.3190
135.000	-.3530	-.3210	-.3190
180.000	-.0820	-.2530	-.3190
225.000	-.3425	-.3290	-.3190
270.000	-.3140	-.3170	-.3140

MACH (4) = 1.247 BETAT (8) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3130	-.3150	
90.000	-.3390	-.3260	-.3200
135.000	-.3500	-.3250	-.3200
180.000	-.0900	-.1870	-.3230
225.000	-.3480	-.3330	-.3180
270.000	-.3110	-.3120	-.3090

AMES 11-7ft IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBM006) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.090

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3110	
90.000	-.3200	-.3110	-.3100
135.000	-.3250	-.3080	-.3160
180.000	-.2630	-.3180	-.3010
225.000	-.3430	-.3170	-.3080
270.000	-.3200	-.3130	-.3060

MACH (1) = .599 BETAT (2) = -6.060

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.2990	
90.000	-.3060	-.3000	-.2900
135.000	-.3120	-.3000	-.3010
180.000	-.2780	-.3000	-.2920
225.000	-.3170	-.3020	-.2960
270.000	-.3170	-.3030	-.2980

MACH (1) = .598 BETAT (3) = -4.040

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2810	
90.000	-.2970	-.2870	-.2860
135.000	-.3080	-.2950	-.2890
180.000	-.2860	-.2920	-.2870
225.000	-.3030	-.2920	-.2840
270.000	-.3080	-.2900	-.2890

MACH (1) = .600 BETAT (4) = -2.000

X/LNP	.250	.500	.750
PHI			
.000	-.2940	-.2880	
90.000	-.2950	-.2930	-.2770
135.000	-.3030	-.2960	-.2900
180.000	-.2840	-.2870	-.2850
225.000	-.2960	-.2870	-.2820
270.000	-.3040	-.2900	-.2890

MACH (1) = .600 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2890	-.2910	
90.000	-.2970	-.2880	-.2850
135.000	-.3010	-.2920	-.2860
180.000	-.2900	-.2850	-.2830
225.000	-.3020	-.2860	-.2850

MACH (1) = .600 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.2990	-.2880	-.2880

MACH (1) = .601 BETAT (6) = 2.050

X/LNP	.250	.500	.750
PHI			
.000	-.2940	-.2900	
90.000	-.2950	-.2920	-.2870
135.000	-.2970	-.2930	-.2810
180.000	-.2880	-.2870	-.2850
225.000	-.3140	-.2980	-.2900
270.000	-.3030	-.2910	-.2860

MACH (1) = .601 BETAT (7) = 4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2920	
90.000	-.2990	-.2890	-.2820
135.000	-.3000	-.2960	-.2880
180.000	-.2880	-.2920	-.2920
225.000	-.3120	-.3050	-.2930
270.000	-.3030	-.3030	-.2920

MACH (1) = .599 BETAT (8) = 6.110

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2920	
90.000	-.3000	-.2930	-.2830
135.000	-.3020	-.2960	-.2880
180.000	-.2860	-.2980	-.2930
225.000	-.3130	-.3020	-.3030
270.000	-.3100	-.3020	-.2960

MACH (1) = .600 BETAT (9) = 8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3130	-.2990	
90.000	-.3200	-.3050	-.2960
135.000	-.3220	-.3120	-.2940
180.000	-.2680	-.3050	-.2990
225.000	-.3240	-.3160	-.3110
270.000	-.3220	-.3150	-.3050

MACH (2) = .904 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3750	-.3590	
90.000	-.3590	-.3510	-.3520
135.000	-.3620	-.3560	-.3630
180.000	-.3440	-.3630	-.3630
225.000	-.3810	-.3680	-.3580

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .904 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
270.000	-.3680	-.3610	-.3490

MACH (2) = .901 BETAT (2) = -6.130

X/LNP	.250	.500	.750
PHI			
.000	-.3400	-.3460	
90.000	-.3300	-.3300	-.3270
135.000	-.3430	-.3360	-.3340
180.000	-.3280	-.3380	-.3250
225.000	-.3540	-.3450	-.3270
270.000	-.3450	-.3350	-.3270

MACH (2) = .902 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3280	
90.000	-.3210	-.3140	-.3110
135.000	-.3340	-.3170	-.3150
180.000	-.3320	-.3270	-.3130
225.000	-.3390	-.3260	-.3170
270.000	-.3360	-.3270	-.3160

MACH (2) = .901 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3150	
90.000	-.3140	-.3080	-.2990
135.000	-.3165	-.3080	-.2970
180.000	-.2940	-.3120	-.2990
225.000	-.3140	-.3060	-.3000
270.000	-.3150	-.3040	-.2980

MACH (2) = .903 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.3050	
90.000	-.3080	-.2990	-.3000
135.000	-.3130	-.3060	-.2980
180.000	-.3060	-.3040	-.3070
225.000	-.3190	-.3100	-.3030
270.000	-.3110	-.3080	-.2960

MACH (2) = .903 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3270	
90.000	-.3270	-.3200	-.3070
135.000	-.3360	.3230	-.3140
180.000	-.3230	-.3210	-.3150
225.000	-.3310	-.3280	-.3250

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .903 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
270.000	-.3260	-.3110	-.3130

MACH (2) = .907 BETAT (7) = 6.180

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3320	
90.000	-.3310	-.3340	-.3390
135.000	-.3430	-.3330	-.3320
180.000	-.3000	-.3420	-.3360
225.000	-.3440	-.3430	-.3400
270.000	-.3300	-.3430	-.3300

MACH (2) = .904 BETAT (8) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3550	-.3430	
90.000	-.3510	-.3360	-.3330
135.000	-.3710	-.3490	-.3400
180.000	-.2750	-.3580	-.3480
225.000	-.3700	-.3560	-.3590
270.000	-.3530	-.3430	-.3360

MACH (3) = 1.099 BETAT (1) = -8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3940	-.3960	
90.000	-.3940	-.3900	-.3760
135.000	-.3960	-.3940	-.3790
180.000	-.2540	-.4070	-.3820
225.000	-.4160	-.4070	-.3950
270.000	-.4030	-.4020	-.3920

MACH (3) = 1.100 BETAT (2) = -6.140

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.3960	
90.000	-.3910	-.3850	-.3800
135.000	-.3880	-.3800	-.3820
180.000	-.2980	-.3910	-.3810
225.000	-.4010	-.3920	-.3880
270.000	-.4010	-.3970	-.3850

MACH (3) = 1.100 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3830	-.3980	
90.000	-.3930	-.3880	-.3790
135.000	-.3820	-.3850	-.3820
180.000	-.3300	-.3840	-.3810
225.000	-.3920	-.3830	-.3[illegible]

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD06)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
270.000	-.3900	-.3800	-.3800

MACH (3) = 1.099 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3730	-.3890	
90.000	-.3860	-.3820	-.3780
135.000	-.3800	-.3740	-.3740
180.000	-.2940	-.3690	-.3700
225.000	-.3930	-.3760	-.3730
270.000	-.3890	-.3800	-.3760

MACH (3) = 1.101 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3880	
90.000	-.3770	-.3760	-.3680
135.000	-.3790	-.3730	-.3710
180.000	-.2860	-.3730	-.3700
225.000	-.3840	-.3700	-.3710
270.000	-.3900	-.3790	-.3700

MACH (3) = 1.100 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3800	-.3820	
90.000	-.3900	-.3860	-.3690
135.000	-.3880	-.3790	-.3710
180.000	-.2630	-.3780	-.3750
225.000	-.3860	-.3780	-.3750
270.000	-.3850	-.3840	-.3680

MACH (3) = 1.100 BETAT (7) = 6.190

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3810	
90.000	-.3920	-.3870	-.3800
135.000	-.3940	-.3850	-.3790
180.000	-.2250	-.3840	-.3720
225.000	-.3850	-.3830	-.3720
270.000	-.3810	-.3810	-.3680

MACH (3) = 1.101 BETAT (8) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3770	-.3860	
90.000	-.4010	-.3890	-.3780
135.000	-.4090	-.3890	-.3770
180.000	-.1800	-.3920	-.3740
225.000	-.3950	-.3830	-.3750

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (8) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3830	-.3780	-.3700

MACH (4) = 1.248 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3270	
90.000	-.3190	-.3220	-.3210
135.000	-.3550	-.3350	-.3210
180.000	-.1660	-.3090	-.3250
225.000	-.3500	-.3320	-.3300
270.000	-.3480	-.3340	-.3250

MACH (4) = 1.248 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.7280	-.3340	
90.000	-.3270	-.3280	-.3250
135.000	-.3480	-.3340	-.3270
180.000	-.1670	-.3100	-.3270
225.000	-.3550	-.3320	-.3300
270.000	-.3490	-.3370	-.3280

MACH (4) = 1.248 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3360	
90.000	-.3260	-.3260	-.3190
135.000	-.3260	-.3230	-.3220
180.000	-.1980	-.3270	-.3220
225.000	-.3420	-.3240	-.3220
270.000	-.3380	-.3310	-.3240

MACH (4) = 1.248 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3310	
90.000	-.3220	-.3260	-.3190
135.000	-.3210	-.3200	-.3210
180.000	-.2110	-.3170	-.3180
225.000	-.3370	-.3210	-.3160
270.000	-.3290	-.3250	-.3170

MACH (4) = 1.248 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3180	
90.000	-.3210	-.3170	-.3140
135.000	-.3300	-.3120	-.3140
180.000	-.1570	-.3110	-.3120
225.000	-.3190	-.3150	-.3130

AMES 11-7D7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD06)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.248 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
270.000	-.3180	-.3150	-.3100

MACH (4) = 1.247 BETAT (6) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3120	-.3170	
90.000	-.3270	-.3190	-.3130
135.000	-.3270	-.3100	-.3130
180.000	-.1130	-.3100	-.3130
225.000	-.3220	-.3150	-.3130
270.000	-.3140	-.3150	-.3120

MACH (4) = 1.248 BETAT (7) = 6.150

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3210	
90.000	-.3400	-.3250	-.3160
135.000	-.3480	-.3190	-.3170
180.000	-.0700	-.2740	-.3190
225.000	-.3380	-.3260	-.3180
270.000	-.3140	-.3140	-.3130

MACH (4) = 1.248 BETAT (8) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3170	-.3200	
90.000	-.3460	-.3300	-.3180
135.000	-.3560	-.3240	-.3230
180.000	-.0730	-.2240	-.3250
225.000	-.3510	-.3380	-.3230
270.000	-.3140	-.3170	-.3140

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD07) (20 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (1) = -8.100

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3140	
90.000	-.3220	-.3170	-.3020
135.000	-.3240	-.3110	-.3120
180.000	-.2430	-.3170	-.3090
225.000	-.3400	-.3220	-.3120
270.000	-.3190	-.3200	-.3100

MACH (1) = .596 BETAT (2) = -6.060

X/LNP	.250	.500	.750
PHI			
.000	-.3110	-.2990	
90.000	-.3090	-.2990	-.3000
135.000	-.3140	-.3050	-.3050
180.000	-.2780	-.3030	-.2980
225.000	-.3190	-.3060	-.3010
270.000	-.3180	-.3040	-.2970

MACH (1) = .598 BETAT (3) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3000	-.2990	
90.000	-.3060	-.2990	-.2870
135.000	-.3080	-.3040	-.2950
180.000	-.2870	-.2970	-.2900
225.000	-.3120	-.2970	-.2920
270.000	-.3070	-.2950	-.2900

MACH (1) = .595 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.2930	-.2870	
90.000	-.2950	-.2820	-.2800
135.000	-.2990	-.2890	-.2840
180.000	-.2840	-.2820	-.2810
225.000	-.2980	-.2880	-.2840
270.000	-.2940	-.2890	-.2830

MACH (1) = .597 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2930	-.2860	
90.000	-.2890	-.2860	-.2820
135.000	-.2960	-.2820	-.2780
180.000	-.2840	-.2820	-.2770
225.000	-.2970	-.2904	.2850

AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD07)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.3000	-.2920	-.2810

MACH (1) = .597 BETAT (6) = 2.050

X/LNP	.250	.500	.750
PHI			
.000	-.2890	-.2850	
90.000	-.2890	-.2860	-.2740
135.000	-.2930	-.2810	-.2720
180.000	-.2820	-.2830	-.2730
225.000	-.3010	-.2960	-.2890
270.000	-.2930	-.2900	-.2750

MACH (1) = .599 BETAT (7) = 4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2950	-.2880	
90.000	-.2980	-.289.	-.2870
135.000	-.3020	-.2900	-.2840
180.000	-.2930	-.2940	-.2890
225.000	-.3130	-.2990	-.3040
270.000	-.3010	-.3000	-.2920

MACH (1) = .597 BETAT (8) = 6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.2960	
90.000	-.3070	-.2990	-.2950
135.000	-.3120	-.2990	-.2930
180.000	-.2890	-.3050	-.2980
225.000	-.3170	-.3130	-.3130
270.000	-.3140	-.3120	-.2950

MACH (1) = .597 BETAT (9) = 8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3160	-.3000	
90.000	-.3140	-.3000	-.2960
135.000	-.3200	-.3030	-.2920
180.000	-.2410	-.3010	-.2960
225.000	-.3160	-.3130	-.3100
270.000	-.3240	-.3130	-.3030

MACH (2) = .900 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3570	-.3520	
90.000	-.3480	-.3450	-.3440
135.000	-.3520	-.3540	-.3570
180.000	-.3310	-.3670	-.3540
225.000	-.3720	-.3710	-.3600

DATE 20 SEP 73 TABULATED PRESSURE DATA - NASA

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD07)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .900 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
270.000	-.3580	-.3590	-.3510

MACH (2) = .899 BETAT (2) = -6.140

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3390	
90.000	-.3360	-.3330	-.3290
135.000	-.3430	-.3420	-.3380
180.000	-.3350	-.3440	-.3350
225.000	-.3550	-.3460	-.3380
270.000	-.3450	-.3390	-.3320

MACH (2) = .899 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3290	
90.000	-.3300	-.3240	-.3100
135.000	-.3360	-.3330	-.3180
180.000	-.3300	-.3300	-.3200
225.000	-.3410	-.3270	-.3230
270.000	-.3340	-.3240	-.3210

MACH (2) = .901 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3060	-.3110	
90.000	-.3130	-.3060	-.2960
135.000	-.3140	-.3150	-.3050
180.000	-.3030	-.3030	-.2990
225.000	-.3170	-.3050	-.3020
270.000	-.3150	-.3050	-.2980

MACH (2) = .901 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2990	-.2940	
90.000	-.2990	-.2930	-.2920
135.000	-.3110	-.2940	-.2920
180.000	-.3010	-.2930	-.2910
225.000	-.3120	-.3010	-.2930
270.000	-.3040	-.3030	-.2850

MACH (2) = .901 BETAT (6) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.3020	
90.000	-.3140	-.2930	-.2890
135.000	-.3000	-.2920	-.2880
180.000	-.2990	-.3010	-.3020
225.000	-.3090	-.3040	-.3050

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM007)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (6) = 2.070

X/LNP	.250	.500	.750
PHI			
270.000	-.3050	-.2960	-.2940

MACH (2) = .906 BETAT (7) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3240	
90.000	-.3300	-.3260	-.3150
135.000	-.3410	-.3300	-.3150
180.000	-.3270	-.3300	-.3210
225.000	-.3440	-.3260	-.3240
270.000	-.3280	-.3210	-.3100

MACH (2) = .901 BETAT (8) = 6.180

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3230	
90.000	-.3360	-.3170	-.3130
135.000	-.3420	-.3210	-.3170
180.000	-.3080	-.3260	-.3290
225.000	-.3420	-.3310	-.3340
270.000	-.3260	-.3210	-.3260

MACH (2) = .901 BETAT (9) = 8.220

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3410	
90.000	-.3540	-.3430	-.3440
135.000	-.3650	-.3490	-.3430
180.000	-.2960	-.3580	-.3490
225.000	-.3610	-.3610	-.3550
270.000	-.3490	-.3400	-.3290

MACH (3) = 1.100 BETAT (1) = -8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.3970	
90.000	-.3960	-.3890	-.3840
135.000	-.3970	-.3900	-.3930
180.000	-.2790	-.4050	-.3910
225.000	-.4170	-.4080	-.4000
270.000	-.4030	-.4020	-.3880

MACH (3) = 1.099 BETAT (2) = -6.140

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3930	
90.000	-.3870	-.3900	-.3790
135.000	-.3890	-.3880	-.3810
180.000	-.3130	-.3880	-.3790
225.000	-.4010	-.3950	-.3850

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD07)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.099 BETAT (2) = -6.140

X/LNP	.250	.500	.750
PHI			
270.000	-.3980	-.3910	-.3810

MACH (3) = 1.098 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3900	
90.000	-.3900	-.3880	-.3780
135.000	-.3840	-.3880	-.3790
180.000	-.3550	-.3840	-.3780
225.000	-.3870	-.3760	-.3790
270.000	-.3860	-.3830	-.3790

MACH (3) = 1.101 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3680	-.3830	
90.000	-.3840	-.3780	-.3720
135.000	-.3780	-.3700	-.3720
180.000	-.3130	-.3670	-.3690
225.000	-.3840	-.3740	-.3690
270.000	-.3820	-.3790	-.3700

MACH (3) = 1.099 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3690	-.3770	
90.000	-.3760	-.3730	-.3670
135.000	-.3780	-.3680	-.3700
180.000	-.3080	-.3640	-.3630
225.000	-.3750	-.3690	-.3610
270.000	-.3830	-.3760	-.3660

MACH (3) = 1.100 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3890	
90.000	-.3890	-.3810	-.3730
135.000	-.3840	-.3800	-.3680
180.000	-.3130	-.3640	-.3780
225.000	-.3890	-.3790	-.3760
270.000	-.3900	-.3800	-.3780

MACH (3) = 1.101 BETAT (7) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3910	
90.000	-.3960	-.3840	-.3780
135.000	-.3950	-.3870	-.3750
180.000	-.2390	-.3880	-.3750
225.000	-.3920	-.3830	-.3760

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBN007)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (7) = 6.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3870	-.3850	-.3740

MACH (3) = 1.101 BETAT (8) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3870	
90.000	-.4010	-.3910	-.3850
135.000	-.4100	-.3950	-.3880
180.000	-.1890	-.3960	-.3790
225.000	-.3930	-.3850	-.3780
270.000	-.3870	-.3810	-.3760

MACH (4) = 1.249 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3290	
90.000	-.3260	-.3260	-.3230
135.000	-.3560	-.3400	-.3240
180.000	-.1580	-.3320	-.3270
225.000	-.3490	-.3340	-.3330
270.000	-.3460	-.3370	-.3330

MACH (4) = 1.248 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3320	
90.000	-.3240	-.3260	-.3200
135.000	-.3420	-.3310	-.3210
180.000	-.1780	-.3220	-.3230
225.000	-.3460	-.3310	-.3270
270.000	-.3410	-.3320	-.3270

MACH (4) = 1.248 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3240	
90.000	-.3220	-.3230	-.3160
135.000	-.3230	-.3230	-.3160
180.000	-.2540	-.3240	-.3180
225.000	-.3320	-.3200	-.3190
270.000	-.3290	-.3220	-.3200

MACH (4) = 1.247 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3170	-.3230	
90.000	-.3180	-.3170	-.3100
135.000	-.3150	-.3120	-.3110
180.000	-.2340	-.3120	-.3110
225.000	-.3290	-.3130	-.3110

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBND07)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.247 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
270.000	-.3240	-.3180	-.3100

MACH (4) = 1.247 BETAT (5) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.3050	-.3160	
90.000	-.3130	-.3090	-.3060
135.000	-.3160	-.3040	-.3060
180.000	-.1710	-.3070	-.3060
225.000	-.3110	-.3070	-.3060
270.000	-.3130	-.3090	-.3050

MACH (4) = 1.245 BETAT (6) = 4.100

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.3160	
90.000	-.3200	-.3160	-.3110
135.000	-.3210	-.3100	-.3100
180.000	-.1840	-.3150	-.3090
225.000	-.3180	-.3110	-.3110
270.000	-.3130	-.3110	-.3090

MACH (4) = 1.248 BETAT (7) = 6.150

X/LNP	.250	.500	.750
PHI			
.000	-.3190	-.3250	
90.000	-.3360	-.3240	-.3180
135.000	-.3360	-.3200	-.3190
180.000	-.0780	-.3170	-.3160
225.000	-.3360	-.3250	-.3170
270.000	-.3190	-.3200	-.3120

MACH (4) = 1.247 BETAT (8) = 8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3220	
90.000	-.3450	-.3310	-.3230
135.000	-.3520	-.3290	-.3280
180.000	-.1830	-.2850	-.3240
225.000	-.3510	-.3390	-.3230
270.000	-.3.80	-.3180	-.3220

MACH (5) = 1.395 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.2920	-.2920	
90.000	-.2920	-.2900	-.2910
135.000	-.3430	-.3220	-.2960
180.000	-.1530	-.2460	-.2990
225.000	-.3220	-.3010	-.2990

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM007)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (5) = 1.395 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
270.000	-.3140	-.3020	-.3000

MACH (5) = 1.395 BETAT (2) = -6.120

X/LNP	.250	.500	.750
PHI			
.000	-.2920	-.2910	
90.000	-.2900	-.2940	-.2890
135.000	-.3290	-.3130	-.2890
180.000	-.1770	-.2370	-.2950
225.000	-.3210	-.2970	-.2950
270.000	-.3080	-.2980	-.2970

MACH (5) = 1.397 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2980	
90.000	-.2960	-.2950	-.3000
135.000	-.3220	-.3080	-.3000
180.000	-.1420	-.2900	-.3040
225.000	-.3270	-.3070	-.3030
270.000	-.3100	-.3050	-.3020

MACH (5) = 1.396 BETAT (4) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3000	-.3040	
90.000	-.3050	-.3020	-.3010
135.000	-.3100	-.3110	-.3010
180.000	-.1160	-.2520	-.3080
225.000	-.3130	-.3100	-.3030
270.000	-.3040	-.3030	-.3000

MACH (5) = 1.394 BETAT (5) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.2920	-.2920	
90.000	-.3010	-.2970	-.2980
135.000	-.3190	-.3010	-.2960
180.000	-.0690	-.2570	-.2970
225.000	-.3190	-.3050	-.2990
270.000	-.2910	-.2960	-.2940

MACH (5) = 1.392 BETAT (6) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.2860	-.2890	
90.000	-.3130	-.2990	-.2970
135.000	-.3270	-.3010	-.2960
180.000	-.0910	-.0910	-.3000
225.000	-.3340	-.3190	-.2950

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (5) = 1.392 BETAT (6) = 8.210

X/LNP	.250	.500	.750
PHI			
270.000	-.2880	-.2840	-.2840

AMES 11-707 IA9 O2A + S3 + T9 UPPER MFS NOZZLE (RBMD08) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MFS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.090

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3100	
90.000	-.3230	-.3140	-.3110
135.000	-.3230	-.3180	-.3160
180.000	-.2640	-.3160	-.3070
225.000	-.3360	-.3190	-.3180
270.000	-.3230	-.3170	-.3170

MACH (1) = .598 BETAT (2) = -6.060

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2890	
90.000	-.3060	-.2980	-.2960
135.000	-.3050	-.2980	-.3010
180.000	-.2770	-.3000	-.2900
225.000	-.3110	-.3030	-.3000
270.000	-.3090	-.3010	-.2990

MACH (1) = .596 BETAT (3) = -4.040

X/LNP	.250	.500	.750
PHI			
.000	-.2930	-.2930	
90.000	-.3010	-.2930	-.2880
135.000	-.3040	-.2970	-.2940
180.000	-.2870	-.2900	-.2790
225.000	-.3020	-.2930	-.2890
270.000	-.3040	-.2930	-.2930

MACH (1) = .597 BETAT (4) = -2.010

X/LNP	.250	.500	.750
PHI			
.000	-.2850	-.2760	
90.000	-.2990	-.2830	-.2830
135.000	-.2990	-.2890	-.2840
180.000	-.2770	-.2820	-.2750
225.000	-.2950	-.2840	-.2820
270.000	-.2930	-.2830	-.2840

MACH (1) = .598 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2810	-.2710	
90.000	-.2860	-.2740	-.2690
135.000	-.2940	-.2740	-.2710
180.000	-.2760	-.2710	-.2670
225.000	-.2880	-.2790	-.2790

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.2920	-.2820	-.2740

MACH (1) = .599 BETAT (6) = 2.050

X/LNP	.250	.500	.750
PHI			
.000	-.2890	-.2760	
90.000	-.2830	-.2790	-.2740
135.000	-.2840	-.2820	-.2740
180.000	-.2820	-.2840	-.2890
225.000	-.3080	-.2970	-.2920
270.000	-.3060	-.2870	-.2750

MACH (1) = .596 BETAT (7) = 4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2930	-.2850	
90.000	-.2920	-.2860	-.2810
135.000	-.2910	-.2830	-.2830
180.000	-.2880	-.2960	-.2880
225.000	-.3040	-.3040	-.3020
270.000	-.3040	-.2990	-.2870

MACH (1) = .598 BETAT (8) = 6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3070	-.3000	
90.000	-.3080	-.2970	-.2980
135.000	-.3060	-.3020	-.2910
180.000	-.2890	-.3040	-.2950
225.000	-.3140	-.3100	-.3270
270.000	-.3240	-.3100	-.3020

MACH (1) = .599 BETAT (9) = 8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3080	
90.000	-.3310	-.3220	-.3080
135.000	-.3290	-.3200	-.3120
180.000	-.2270	-.3220	-.3200
225.000	-.3320	-.3250	-.3330
270.000	-.3240	-.3240	-.3100

MACH (2) = .902 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3640	-.3560	
90.000	-.3560	-.3490	-.3480
135.000	-.3710	-.3580	-.3580
180.000	-.3560	-.3660	-.3500
225.000	-.3770	-.3690	-.3510

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .902 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
270.000	-.3640	-.3600	-.3500

MACH (2) = .901 BETAT (2) = -6.130

X/LNP	.250	.500	.750
PHI			
.000	-.3410	-.3370	
90.000	-.3380	-.3320	-.3290
135.000	-.3510	-.3420	-.3310
180.000	-.3500	-.3450	-.3370
225.000	-.3590	-.3430	-.3400
270.000	-.3480	-.3420	-.3400

MACH (2) = .899 BETAT (3) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3250	
90.000	-.3260	-.3210	-.3110
135.000	-.3340	-.3250	-.3180
180.000	-.3230	-.3230	-.3130
225.000	-.3370	-.3290	-.3210
270.000	-.3330	-.3260	-.3140

MACH (2) = .900 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3020	-.3060	
90.000	-.3070	-.3030	-.3000
135.000	-.3120	-.3070	-.3070
180.000	-.2910	-.3030	-.2970
225.000	-.3090	-.3010	-.2970
270.000	-.3110	-.3060	-.2990

MACH (2) = .902 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3060	-.3020	
90.000	-.3040	-.3000	-.2950
135.000	-.3020	-.2940	-.2940
180.000	-.3010	-.3030	-.2920
225.000	-.3170	-.3100	-.3010
270.000	-.3110	-.3050	-.2960

MACH (2) = .903 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3160	
90.000	-.3260	-.3180	-.3150
135.000	-.3350	-.3150	-.3170
180.000	-.3230	-.3230	-.3230
225.000	-.3460	-.3300	-.3290

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .903 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
270.000	-.3310	-.3220	-.3160

MACH (2) = .904 BETAT (7) = 6.180

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3320	
90.000	-.3410	-.3310	-.3240
135.000	-.3510	-.3390	-.3240
180.000	-.3390	-.3540	-.3420
225.000	-.3640	-.3430	-.3400
270.000	-.3390	-.3270	-.3200

MACH (2) = .901 BETAT (8) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3500	-.3360	
90.000	-.3620	-.3350	-.3380
135.000	-.3650	-.3510	-.3430
180.000	-.3060	-.3520	-.3500
225.000	-.3690	-.3460	-.3440
270.000	-.3530	-.3410	-.3350

MACH (3) = 1.099 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3940	-.3900	
90.000	-.3960	-.3850	-.3830
135.000	-.3960	-.3840	-.3820
180.000	-.3110	-.3980	-.3910
225.000	-.4150	-.4070	-.4000
270.000	-.4010	-.3970	-.3900

MACH (3) = 1.100 BETAT (2) = -6.150

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3870	
90.000	-.3900	-.3790	-.3730
135.000	-.3860	-.3800	-.3720
180.000	-.3360	-.3850	-.3790
225.000	-.3950	-.3930	-.3870
270.000	-.3880	-.3850	-.3870

MACH (3) = 1.100 BETAT (3) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3800	-.3830	
90.000	-.3860	-.3820	-.3750
135.000	-.3830	-.3780	-.3780
180.000	-.3540	-.3780	-.3760
225.000	-.3910	-.3830	-.3790

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC08)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (3) = -4.090

X/LNP	.250	.500	.750
PHI			
270.000	-.3880	-.3820	-.3790

MACH (3) = 1.099 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3680	-.3850	
90.000	-.3840	-.3800	-.3720
135.000	-.3810	-.3710	-.3720
180.000	-.3360	-.3700	-.3660
225.000	-.3860	-.3720	-.3630
270.000	-.3810	-.3780	-.3720

MACH (3) = 1.100 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3680	-.3780	
90.000	-.3800	-.3730	-.3670
135.000	-.3800	-.3680	-.3680
180.000	-.3370	-.3690	-.3680
225.000	-.3800	-.3730	-.3680
270.000	-.3870	-.3800	-.3710

MACH (3) = 1.097 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3770	-.3840	
90.000	-.3880	-.3750	-.3720
135.000	-.3860	-.3770	-.3710
180.000	-.3380	-.3770	-.3760
225.000	-.3850	-.3770	-.3760
270.000	-.3860	-.3810	-.3730

MACH (3) = 1.100 BETAT (7) = 6.180

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3830	
90.000	-.3900	-.3860	-.3820
135.000	-.3960	-.3880	-.3790
180.000	-.2640	-.3870	-.3760
225.000	-.3910	-.3810	-.3740
270.000	-.3860	-.3800	-.3730

MACH (3) = 1.101 BETAT (8) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3940	
90.000	-.4010	-.3960	-.3870
135.000	-.4110	-.4000	-.3850
180.000	-.2180	-.4010	-.3870
225.000	-.3990	-.3900	-.3830

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD08)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.101 BETAT (8) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3960	-.3910	-.3820

MACH (4) = 1.246 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3290	
90.000	-.3260	-.3260	-.3240
135.000	-.3510	-.3370	-.3250
180.000	-.1740	-.3450	-.3260
225.000	-.3490	-.3380	-.3340
270.000	-.3430	-.3380	-.3290

MACH (4) = 1.250 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3280	
90.000	-.3260	-.3250	-.3200
135.000	-.3380	-.3280	-.3220
180.000	-.2090	-.3290	-.3210
225.000	-.3370	-.3270	-.3230
270.000	-.3390	-.3280	-.3250

MACH (4) = 1.249 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3220	
90.000	-.3190	-.3170	-.3120
135.000	-.3200	-.3180	-.3140
180.000	-.2840	-.3190	-.3130
225.000	-.3210	-.3170	-.3130
270.000	-.3240	-.3200	-.3150

MACH (4) = 1.248 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3210	
90.000	-.3200	-.3190	-.3120
135.000	-.3170	-.3130	-.3120
180.000	-.2500	-.3120	-.3120
225.000	-.3220	-.3150	-.3110
270.000	-.3220	-.3150	-.3110

MACH (4) = 1.246 BETAT (5) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.3160	
90.000	-.3160	-.3110	-.3070
135.000	-.3160	-.3110	-.3070
180.000	-.2370	-.3100	-.3080
225.000	-.3190	-.3070	-.3080

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD08)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.246 BETAT (5) = 2.060

X/LNP	.250	.500	.750
PHI			
270.000	-.3180	-.3080	-.3070

MACH (4) = 1.246 BETAT (6) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3190	
90.000	-.3240	-.3180	-.3130
135.000	-.3200	-.3150	-.3130
180.000	-.2380	-.3190	-.3130
225.000	-.3220	-.3140	-.3180
270.000	-.3150	-.3150	-.3160

MACH (4) = 1.247 BETAT (7) = 6.150

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3270	
90.000	-.3350	-.3260	-.3200
135.000	-.3360	-.3240	-.3210
180.000	-.1250	-.3270	-.3200
225.000	-.3380	-.3290	-.3220
270.000	-.3240	-.3210	-.3180

MACH (4) = 1.245 BETAT (8) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3310	
90.000	-.3480	-.3380	-.3350
135.000	-.3560	-.3410	-.3370
180.000	-.1210	-.3160	-.3300
225.000	-.3550	-.3510	-.3330
270.000	-.3300	-.3320	-.3310

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A (RBMD09) (28 APR 73)

AMES 11-707 IA9 O2A + S3 + T9 UPPER MP NOZZLE

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	4.000	ORBINC =	.500
RUDDER =	.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (1) = -8.090

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3100	
90.000	-.3270	-.3140	-.3100
135.000	-.3240	-.3220	-.3120
180.000	-.2730	-.3150	-.3080
225.000	-.3380	-.3240	-.3130
270.000	-.3180	-.3140	-.3120

MACH (1) = .597 BETAT (2) = -6.060

X/LNP	.250	.500	.750
PHI			
.000	-.3040	-.3050	
90.000	-.3180	-.3150	-.2980
135.000	-.3150	-.3070	-.2970
180.000	-.2900	-.3040	-.2950
225.000	-.3200	-.3080	-.3000
270.000	-.3200	-.3050	-.3010

MACH (1) = .598 BETAT (3) = -4.030

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2960	
90.000	-.3160	-.2940	-.2930
135.000	-.3040	-.3040	-.2970
180.000	-.2940	-.2940	-.2810
225.000	-.3090	-.2940	-.2850
270.000	-.3070	-.2920	-.2880

MACH (1) = .598 BETAT (4) = -2.010

X/LNP	.250	.500	.750
PHI			
.000	-.2880	-.2770	
90.000	-.2930	-.2880	-.2810
135.000	-.2930	-.2860	-.2800
180.000	-.2770	-.2840	-.2730
225.000	-.2940	-.2810	-.2770
270.000	-.2850	-.2820	-.2770

MACH (1) = .596 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2780	-.2830	
90.000	-.2920	-.2780	-.2740
135.000	-.2880	-.2830	-.2710
180.000	-.2810	-.2740	-.2710
225.000	-.3000	-.2830	-.2770

AMES 11-7D7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD09)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .596 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.2910	-.2830	-.2730

MACH (1) = .598 BETAT (6) = 2.050

X/LNP	.250	.500	.750
PHI			
.000	-.2900	-.2790	
90.000	-.2960	-.2820	-.2770
135.000	-.2920	-.2760	-.2760
180.000	-.2840	-.2790	-.2840
225.000	-.3070	-.2900	-.2890
270.000	-.2910	-.2850	-.2780

MACH (1) = .597 BETAT (7) = 4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2900	
90.000	-.2900	-.2880	-.2840
135.000	-.2970	-.2910	-.2850
180.000	-.2920	-.2940	-.2820
225.000	-.3070	-.2990	-.2960
270.000	-.3140	-.3000	-.2840

MACH (1) = .597 BETAT (8) = 6.120

X/LNP	.250	.500	.750
PHI			
.000	-.3090	-.2920	
90.000	-.3080	-.2950	-.2910
135.000	-.3110	-.2990	-.2870
180.000	-.3010	-.2980	-.2920
225.000	-.3170	-.3060	-.3010
270.000	-.3160	-.3050	-.2920

MACH (1) = .598 BETAT (9) = 8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3110	
90.000	-.3270	-.3160	-.3030
135.000	-.3310	-.3160	-.3010
180.000	-.2640	-.3090	-.3070
225.000	-.3390	-.3180	-.3150
270.000	-.3380	-.3140	-.3060

MACH (2) = .899 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
.000	-.3510	-.3480	
90.000	-.3540	-.3460	-.3350
135.000	-.3600	-.3530	-.3450
180.000	-.3530	-.3620	-.3420
225.000	-.3750	-.3650	-.3480

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBM009)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .899 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
270.000	-.3540	-.3500	-.3420

MACH (2) = .907 BETAT (2) = -6.120

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3210	
90.000	-.3200	-.3200	-.3260
135.000	-.3360	-.3310	-.3420
180.000	-.3370	-.3340	-.3350
225.000	-.3410	-.3370	-.3370
270.000	-.3380	-.3380	-.3380

MACH (2) = .901 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3260	
90.000	-.3310	-.3260	-.3140
135.000	-.3470	-.3320	-.3240
180.000	-.3300	-.3310	-.3200
225.000	-.3430	-.3325	-.3200
270.000	-.3330	-.3330	-.3160

MACH (2) = .899 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3040	-.3010	
90.000	-.3140	-.3010	-.2980
135.000	-.3120	-.3060	-.3080
180.000	-.3020	-.3030	-.3040
225.000	-.3170	-.3040	-.3010
270.000	-.3100	-.3030	-.2970

MACH (2) = .903 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3050	-.3000	
90.000	-.3060	-.2950	-.2950
135.000	-.3080	-.2930	-.2970
180.000	-.[illegible]	-.2930	-.3010
225.000	-.3110	-.3030	-.3100
270.000	-.3100	-.3060	-.3020

MACH (2) = .901 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3150	
90.000	-.3310	-.3200	-.3020
135.000	-.3210	-.3150	-.3090
180.000	-.3170	-.3230	-.3190
225.000	-.3430	-.3310	-.3310

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM009)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
270.000	-.3340	-.3190	-.3130

MACH (2) = .900 BETAT (7) = 6.180

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3080	
90.000	-.3350	-.3190	-.3200
135.000	-.3410	-.3260	-.3200
180.000	-.3180	-.3360	-.3280
225.000	-.3480	-.3450	-.3380
270.000	-.3370	-.3210	-.3190

MACH (2) = .900 BETAT (8) = 8.240

X/LNP	.250	.500	.750
PHI			
.000	-.3570	-.3430	
90.000	-.3600	-.3430	-.3360
135.000	-.3720	-.3540	-.3410
180.000	-.3170	-.3550	-.3440
225.000	-.3710	-.3540	-.3480
270.000	-.3620	-.3360	-.3280

MACH (3) = 1.103 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3850	-.3880	
90.000	-.3900	-.3880	- 3800
135.000	-.4000	-.3860	-.3790
180.000	-.3340	-.3960	-.3830
225.000	-.4070	-.4010	-.3950
270.000	-.3970	-.3920	-.3960

MACH (3) = 1.100 BETAT (2) = -6.140

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3820	
90.000	-.3870	-.3760	-.3720
135.000	-.3790	-.3780	-.3730
180.000	-.3650	-.3840	-.3780
225.000	-.3910	-.3870	-.3770
270.000	-.3880	-.3820	-.3790

MACH (3) = 1.103 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3880	
90.000	-.3850	-.3830	-.3750
135.000	-.3840	-.3840	-.3820
180.000	-.3760	-.3820	-.3810
225.000	-.3870	-.3790	-.3790

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD09)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE C_P

MACH (3) = 1.103 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
270.000	-.3870	-.3830	-.3790

MACH (3) = 1.103 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3720	-.3800	
90.000	-.3860	-.3820	-.3710
135.000	-.3800	-.3750	-.3700
180.000	-.3550	-.3740	-.3720
225.000	-.3860	-.3750	-.3690
270.000	-.3810	-.3760	-.3710

MACH (3) = 1.103 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3670	-.3770	
90.000	-.3760	-.3710	-.3720
135.000	-.3810	-.3690	-.3690
180.000	-.3620	-.3710	-.3690
225.000	-.3790	-.3750	-.3690
270.000	-.3840	-.3790	-.3690

MACH (3) = 1.103 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3750	-.3850	
90.000	-.3840	-.3810	-.3760
135.000	-.3880	-.3800	-.3780
180.000	-.3750	-.3820	-.3770
225.000	-.3880	-.3840	-.3800
270.000	-.3890	-.3830	-.3760

MACH (3) = 1.101 BETAT (7) = 6.210

X/LNP	.250	.500	.750
PHI			
.000	-.3750	-.3800	
90.000	-.3820	-.3760	-.3740
135.000	-.3840	-.3830	-.3760
180.000	-.3210	-.3810	-.3720
225.000	-.3890	-.3810	-.3730
270.000	-.3810	-.3770	-.3660

MACH (3) = 1.104 BETAT (8) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3920	
90.000	-.3970	-.3910	-.3860
135.000	-.4040	-.3910	-.3050
180.000	-.2480	-.3880	-.3810
225.000	-.4010	-.3860	-.3860

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBM059)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.104 BETAT (8) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3920	-.3840	-.3800

MACH (4) = 1.246 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3320	
90.000	-.3320	-.3290	-.3260
135.000	-.3440	-.3350	-.3300
180.000	-.2150	-.3470	-.3290
225.000	-.3480	-.3400	-.3400
270.000	-.3410	-.3370	-.3380

MACH (4) = 1.248 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3400	-.3440	
90.000	-.3440	-.3410	-.3380
135.000	-.3460	-.3430	-.3420
180.000	-.2630	-.3460	-.3400
225.000	-.3510	-.3450	-.3420
270.000	-.3540	-.3460	-.3420

MACH (4) = 1.249 BETAT (3) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3120	-.3190	
90.000	-.3170	-.3160	-.3190
135.000	-.3190	-.3160	-.3150
180.000	-.2900	-.3140	-.3120
225.000	-.3180	-.3130	-.3100
270.000	-.3210	-.3140	-.3100

MACH (4) = 1.248 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3230	
90.000	-.3230	-.3240	-.3130
135.000	-.3210	-.3190	-.3160
180.000	-.2740	-.3160	-.3160
225.000	-.3200	-.3160	-.3150
270.000	-.3220	-.3170	-.3160

MACH (4) = 1.249 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3130	-.3190	
90.000	-.3170	-.3170	-.3140
135.000	-.3170	-.3140	-.3120
180.000	-.2810	-.3140	-.3130
225.000	-.3210	-.3130	-.3170

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (4) = 1.249 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
270.000	-.3200	-.3190	-.3150

MACH (4) = 1.249 BETAT (6) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3210	
90.000	-.3230	-.3170	-.3160
135.000	-.3210	-.3170	-.3170
180.000	-.2570	-.3200	-.3170
225.000	-.3250	-.3170	-.3170
270.000	-.3210	-.3190	-.3120

MACH (4) = 1.249 BETAT (7) = 6.170

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3270	
90.000	-.3380	-.3270	-.3250
135.000	-.3340	-.3270	-.3260
180.000	-.1790	-.3340	-.3250
225.000	-.3410	-.3300	-.3270
270.000	-.3300	-.3260	-.3250

MACH (4) = 1.246 BETAT (8) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3360	
90.000	-.3490	-.3400	-.3350
135.000	-.3540	-.3440	-.3380
180.000	-.1560	-.3400	-.3320
225.000	-.3540	-.3470	-.3340
270.000	-.3360	-.3290	-.3320

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM010) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .597 BETAT (1) = -8.070

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3170	
90.000	-.3350	-.3250	-.3130
135.000	-.3330	-.3270	-.3270
180.000	-.2650	-.3270	-.3170
225.000	-.3410	-.3330	-.3210
270.000	-.3410	-.3270	-.3190

MACH (1) = .598 BETAT (2) = -6.050

X/LNP	.250	.500	.750
PHI			
.000	-.3190	-.3030	
90.000	-.3260	-.3170	-.3100
135.000	-.3190	-.3100	-.3060
180.000	-.2840	-.3090	-.2980
225.000	-.3300	-.3220	-.3010
270.000	-.3200	-.3100	-.3010

MACH (1) = .597 BETAT (3) = -4.030

X/LNP	.250	.500	.750
PHI			
.000	-.3010	-.2930	
90.000	-.3150	-.2970	-.2950
135.000	-.3090	-.3050	-.2910
180.000	-.2920	-.2950	-.2880
225.000	-.3090	-.3000	-.2840
270.000	-.3050	-.2930	-.2910

MACH (1) = .597 BETAT (4) = -2.000

X/LNP	.250	.500	.750
PHI			
.000	-.2850	-.2750	
90.000	-.2930	-.2860	-.2730
135.000	-.2930	-.2780	-.2740
180.000	-.2800	-.2850	-.2710
225.000	-.2930	-.2840	-.2730
270.000	-.2960	-.2880	-.2770

MACH (1) = .598 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2820	-.2740	
90.000	-.2890	-.2790	-.2760
135.000	-.2860	-.2830	-.2630
180.000	-.2780	-.2730	-.2690
225.000	-.3020	-.2880	-.2790

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .598 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.2920	-.2780	-.2790

MACH (1) = .598 BETAT (6) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.2910	-.2810	
90.000	-.2890	-.2870	-.2790
135.000	-.2940	-.2840	-.2820
180.000	-.2810	-.2850	-.2900
225.000	-.3100	-.2950	-.2950
270.000	-.3070	-.2920	-.2810

MACH (1) = .597 BETAT (7) = 4.090

X/LNP	.250	.500	.750
PHI			
.000	-.28[illegible]	-.2850	
90.000	-.2830	-.2880	-.2820
135.000	-.2880	-.2900	-.2830
180.000	-.2880	-.2950	-.2890
225.000	-.3040	-.3000	-.3010
270.000	-.3010	-.3000	-.2820

MACH (1) = .5[illegible]8 BETAT (8) = 6.130

X/LNP	.250	.500	.750
PHI			
.000	-.2950	-.2980	
90.000	-.2980	-.2970	-.2950
135.000	-.3100	-.3000	-.2940
180.000	-.2960	-.3030	-.2920
225.000	-.3050	-.3030	-.3100
270.000	-.3200	-.3120	-.3010

MACH (1) = .596 BETAT (9) = 8.170

X/LNP	.25[illegible]	.500	.750
PHI			
.000	-.3140	-.3080	
90.000	-.3170	-.3150	-.3040
135.000	-.3260	-.3190	-.3030
180.000	-.2590	-.312[illegible]	-.3030
225.000	-.3240	-.3120	-.3290
270.000	-.3330	-.3250	-.3100

MACH (2) = .901 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3540	-.3480	
90.000	-.3590	-.3440	-.3440
135.000	-.3600	-.3510	-.3500
180.000	-.3540	-.3590	-.3430
225.000	-.3780	-.3590	-.3450

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMP10)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
270.000	-.3620	-.3580	-.3450

MACH (2) = .900 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3260	
90.000	-.3370	-.3330	-.3200
135.000	-.3430	-.3410	-.3300
180.000	-.3360	-.3410	-.3280
225.000	-.3480	-.3420	-.3360
270.000	-.3420	-.3310	-.3320

MACH (2) = .903 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3180	
90.000	-.3290	-.3260	-.3260
135.000	-.3360	-.3290	-.3310
180.000	-.3200	-.3260	-.3230
225.000	-.3310	-.3260	-.3290
270.000	-.3330	-.3300	-.3260

MACH (2) = .902 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3100	
90.000	-.3170	-.3130	-.3070
135.000	-.3170	-.3140	-.3090
180.000	-.3050	-.3080	-.3040
225.000	-.3250	-.3150	-.3070
270.000	-.3260	-.3250	-.3080

MACH (2) = .902 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3070	
90.000	-.3160	-.3075	-.3010
135.000	-.3130	-.3070	-.2990
180.000	-.3110	-.3090	-.3040
225.000	-.3230	-.3150	-.3110
270.000	-.3160	-.3130	-.3050

MACH (2) = .901 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3270	
90.000	-.3300	-.3290	-.3180
135.000	-.3340	-.3240	-.3150
180.000	-.3290	-.3300	-.3160
225.000	-.3450	-.3390	-.3270

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
270.000	-.3340	-.3320	-.3130

MACH (2) = .901 BETAT (7) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3210	
90.000	-.3470	-.3260	-.3260
135.000	-.3490	-.3370	-.3250
180.000	-.3380	-.3510	-.3290
225.000	-.3420	-.3480	-.3410
270.000	-.3380	-.3320	-.3260

MACH (2) = .900 BETAT (8) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3450	-.3350	
90.000	-.3580	-.3470	-.3340
135.000	-.3640	-.3570	-.3370
180.000	-.3160	-.3500	-.3380
225.000	-.3650	-.3520	-.3490
270.000	-.3540	-.3400	-.3340

MACH (3) = 1.103 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.3940	
90.000	-.3910	-.3900	-.3850
135.000	-.4170	-.3910	-.3860
180.000	-.3450	-.4000	-.3910
225.000	-.4100	-.4060	-.4000
270.000	-.4020	-.3940	-.3950

MACH (3) = 1.103 BETAT (2) = -6.130

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3880	
90.000	-.3870	-.3790	-.3800
135.000	-.3880	-.3830	-.3790
180.000	-.3800	-.3900	-.3800
225.000	-.3910	-.3920	-.3900
270.000	-.3920	-.3900	-.3860

MACH (3) = 1.102 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3890	
90.000	-.3880	-.3850	-.3760
135.000	-.3890	-.3840	-.3860
180.000	-.3870	-.3870	-.3830
225.000	-.3910	-.3860	-.3830

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD10)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.102 BETAT (3) = -4.080

X/LNP	.250	.500	.750
PHI			
270.000	-.3910	-.3830	-.3820

MACH (3) = 1.102 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3760	-.3820	
90.000	-.3860	-.3820	-.3690
135.000	-.3830	-.3820	-.3810
180.000	-.3590	-.3800	-.3790
225.000	-.3860	-.3770	-.3730
270.000	-.3810	-.3760	-.3730

MACH (3) = 1.102 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3730	-.3740	
90.000	-.3790	-.3700	-.3700
135.000	-.3830	-.3720	-.3700
180.000	-.3640	-.3790	-.3770
225.000	-.3900	-.3810	-.3770
270.000	-.3790	-.3750	-.3650

MACH (3) = 1.102 BETAT (6) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3820	-.3860	
90.000	-.3910	-.3820	.3780
135.000	-.3920	-.3830	-.3790
180.000	-.3850	-.3980	-.3930
225.000	-.4020	-.3880	-.3890
270.000	-.3900	-.3800	-.3730

MACH (3) = 1.100 BETAT (7) = 6.210

X/LNP	.250	.500	.750
PHI			
.000	-.3870	-.3820	
90.000	-.3950	-.3840	-.3750
135.000	-.3930	-.3880	-.3760
180.000	-.3810	-.3930	-.3780
225.000	-.3960	-.3890	-.3820
270.000	-.3830	-.3760	-.3720

MACH (3) = 1.106 BETAT (8) = 8.280

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3900	
90.000	-.4020	-.3950	-.3890
135.000	-.4060	-.4060	-.3890
180.000	-.2960	-.4050	-.3930
225.000	-.4270	-.4010	-.3990

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.106 BETAT (0) = 0.280

X/LNP	.250	.500	.750
PHI			
270.000	-.3940	-.3860	-.3810

MACH (4) = 1.246 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3350	
90.000	-.3420	-.3360	-.3300
135.000	-.3440	-.3370	-.3360
180.000	-.2330	-.3520	-.3330
225.000	-.3500	-.3420	-.3390
270.000	-.3450	-.3395	-.3360

MACH (4) = 1.248 BETAT (2) = -6.080

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3260	
90.000	-.3350	-.3300	-.3230
135.000	-.3340	-.3270	-.3290
180.000	-.2670	-.3300	-.3230
225.000	-.3340	-.3320	-.3270
270.000	-.3350	-.3300	-.3270

MACH (4) = 1.250 BETAT (3) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3270	
90.000	-.3270	-.3250	-.3210
135.000	-.3280	-.3270	-.3280
180.000	-.3040	-.3260	-.3230
225.000	-.3250	-.3240	-.3220
270.000	-.3290	-.3250	-.3220

MACH (4) = 1.249 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3150	-.3220	
90.000	-.3260	-.3210	-.3170
135.000	-.3250	-.3190	-.3210
180.000	-.2920	-.3210	-.3200
225.000	-.3230	-.3210	-.3160
270.000	-.3230	-.3220	-.3180

MACH (4) = 1.245 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3190	
90.000	-.3190	-.3160	-.3120
135.000	-.3190	-.3170	-.3140
180.000	-.3030	-.3190	-.3170
225.000	-.3240	-.3190	-.3210

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD10)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.245 BETAT (5) = 2.070

X/LNP	.250	.500	.750
PHI			
270.000	-.3210	-.3200	-.3140

MACH (4) = 1.247 BETAT (6) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3250	
90.000	-.3270	-.3230	-.3200
135.000	-.3250	-.3240	-.3200
180.000	-.2750	-.3260	-.3230
225.000	-.3300	-.3230	-.3270
270.000	-.3240	-.3250	-.3200

MACH (4) = 1.246 BETAT (7) = 6.160

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3310	
90.000	-.3350	-.3280	-.3250
135.000	-.3370	-.3310	-.3280
180.000	-.2200	-.3330	-.3260
225.000	-.3410	-.3330	-.3290
270.000	-.3360	-.3290	-.3230

MACH (4) = 1.247 BETAT (8) = 8.220

X/LNP	.250	.500	.750
PHI			
.000	-.3380	-.3380	
90.000	-.3480	-.3460	-.3400
135.000	-.3510	-.3460	-.3420
180.000	-.1690	-.3560	-.3350
225.000	-.3550	-.3480	-.3380
270.000	-.3430	-.3370	-.3360

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC11) (26 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .599 BETAT (1) = -8.040

X/LNP	.250	.500	.750
PHI			
.000	-.3160	-.3110	
90.000	-.3250	-.3230	-.3100
135.000	-.3310	-.3120	-.3110
180.000	-.2600	-.3190	-.3120
225.000	-.3310	-.3240	-.3160
270.000	-.3310	-.3190	-.3100

MACH (1) = .597 BETAT (2) = -6.030

X/LNP	.250	.500	.750
PHI			
.000	-.3080	-.3020	
90.000	-.3260	-.3150	-.3070
135.000	-.3190	-.3120	-.3070
180.000	-.2920	-.3090	-.3040
225.000	-.3250	-.3160	-.3050
270.000	-.3210	-.3120	-.2980

MACH (1) = .597 BETAT (3) = -4.010

X/LNP	.250	.500	.750
PHI			
.000	-.2980	-.2900	
90.000	-.3130	-.3040	-.2970
135.000	-.3120	-.3000	-.2980
180.000	-.2940	-.2940	-.2870
225.000	-.3040	-.2970	-.2880
270.000	-.3040	-.2950	-.2890

MACH (1) = .599 BETAT (4) = -2.000

X/LNP	.250	.500	.750
PHI			
.000	-.2800	-.2810	
90.000	-.2860	-.2830	-.2770
135.000	-.2980	-.2850	-.2760
180.000	-.2730	-.2810	-.2770
225.000	-.2980	-.2820	-.2810
270.000	-.2950	-.2860	-.2770

MACH (1) = .600 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.2820	-.2750	
90.000	-.2840	-.2820	-.2760
135.000	-.2860	-.2820	-.2760
180.000	-.2760	-.2840	-.2780
225.000	-.2960	-.2820	-.2820

AMES 11-7ft IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD11)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = .600 BETAT (5) = .020

X/LNP	.250	.500	.750
PHI			
270.000	-.2950	-.2830	-.2810

MACH (1) = .598 BETAT (6) = 2.060

X/LNP	.250	.500	.750
PHI			
.000	-.2830	-.2760	
90.000	-.2900	-.2780	-.2740
135.000	-.2910	-.2860	-.2700
180.000	-.2840	-.2850	-.2810
225.000	-.3070	-.2970	-.2990
270.000	-.2960	-.2900	-.2760

MACH (1) = .597 BETAT (7) = 3.080

X/LNP	.250	.500	.750
PHI			
.000	-.2890	-.2790	
90.000	-.2940	-..810	-.2750
135.000	-.2860	-.2830	-.2720
180.000	-.2830	-.2870	-.2790
225.000	-.3060	-.2870	-.2930
270.000	-.2990	-.2840	-.2750

MACH (1) = .600 BETAT (8) = 4.100

X/LNP	.250	.500	.750
PHI			
.000	-.2860	-.2840	
90.000	-.2910	-.2770	-.2800
135.000	-.2960	-.2780	-.2750
180.000	-.2890	-.2940	-.2880
225.000	-.2990	-.3000	-.3120
270.000	-.2960	-.2920	-.2860

MACH (1) = .601 BETAT (9) = 6.150

X/LNP	.250	.500	.750
PHI			
.000	-.2970	-.2930	
90.000	-.2980	-.2910	-.2930
135.000	-.3030	-.2960	-.2890
180.000	-.2920	-.3070	-.2890
225.000	-.3040	-.3050	-.3000
270.000	-.3120	-.3120	-.2930

MACH (1) = .600 BETAT (10) = 8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3130	
90.000	-.3280	-.3110	-.3190
135.000	-.3270	-.3170	-.3160
180.000	-.2600	-.3140	-.3130
225.000	-.3280	-.3180	-.3180

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBM011)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .600 BETAT (10) = 8.190

X/LNP	.250	.500	.750
PHI			
270.000	-.3300	-.3140	-.3170

MACH (2) = .900 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3670	-.3560	
90.000	-.3690	-.3560	-.3430
135.000	-.3740	-.3620	-.3450
180.000	-.3720	-.3680	-.3430
225.000	-.3830	-.3690	-.3560
270.000	-.3750	-.3590	-.3470

MACH (2) = .903 BETAT (2) = -6.090

X/LNP	.250	.500	.750
PHI			
.000	-.3350	-.3310	
90.000	-.3410	-.3330	-.3270
135.000	-.3460	-.3390	-.3360
180.000	-.3340	-.3340	-.3280
225.000	-.3510	-.3470	-.3380
270.000	-.3460	-.3350	-.3390

MACH (2) = .903 BETAT (3) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3180	
90.000	-.3350	-.3230	-.3230
135.000	-.3480	-.3310	-.3280
180.000	-.3260	-.3280	-.3250
225.000	-.3390	-.3310	-.3260
270.000	-.3340	-.3270	-.3230

MACH (2) = .901 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3140	-.3120	
90.000	-.3220	-.3200	-.3090
135.000	-.3260	-.3240	-.3140
180.000	-.3120	-.3140	-.3100
225.000	-.3280	-.3170	-.3120
270.000	-.3290	-.3200	-.3140

MACH (2) = .901 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3130	-.3070	
90.000	-.3190	-.3140	-.3020
135.000	-.3160	-.3100	-.3090
180.000	-.3090	-.3030	-.3100
225.000	-.3240	-.3170	-.3120

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RSMD11)

SECTION / 11MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .901 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
270.000	-.3240	-.3190	-.3110

MACH (2) = .900 BETAT (6) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3100	
90.000	-.3340	-.3140	-.3150
135.000	-.3290	-.3210	-.3190
180.000	-.3240	-.3240	-.3160
225.000	-.3360	-.3220	-.3230
270.000	-.3290	-.3200	-.3160

MACH (2) = .902 BETAT (7) = 6.200

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.3260	
90.000	-.3370	-.3310	-.3290
135.000	-.3340	-.3370	-.3300
180.000	-.3240	-.3360	-.3370
225.000	-.3390	-.3450	-.3430
270.000	-.3400	-.3370	-.3200

MACH (2) = .900 BETAT (8) = 8.280

X/LNP	.250	.500	.750
PHI			
.000	-.3570	-.3430	
90.000	-.3750	-.3450	-.3400
135.000	-.3830	-.3510	-.3460
180.000	-.3500	-.3570	-.3440
225.000	-.3740	-.3450	-.3460
270.000	-.3510	-.3370	-.3220

MACH (3) = 1.103 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.4010	-.4020	
90.000	-.4040	-.4030	-.3910
135.000	-.4220	-.4050	-.3990
180.000	-.3450	-.4070	-.3990
225.000	-.4240	-.4180	-.4070
270.000	-.4130	-.4080	-.4030

MACH (3) = 1.098 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3940	
90.000	-.3950	-.3920	-.3840
135.000	-.4000	-.4000	-.3970
180.000	-.3880	-.3970	-.3890
225.000	-.3980	-.3960	-.3900

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD11)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.099 BETAT (2) = -6.110

X/LNP	.250	.500	.750
PHI			
270.000	-.3980	-.3920	-.3910

MACH (3) = 1.102 BETAT (3) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3890	
90.000	-.3920	-.3850	-.3840
135.000	-.4050	-.4010	-.4030
180.000	-.3970	-.4040	-.3930
225.000	-.3970	-.3930	-.3910
270.000	-.3940	-.3890	-.3890

MACH (3) = 1.101 BETAT (4) = -2.030

X/LNP	.250	.500	.750
PHI			
.000	-.3770	-.3800	
90.000	-.3830	-.3730	-.3710
135.000	-.3910	-.3850	-.3890
180.000	-.3820	-.3950	-.3850
225.000	-.3840	-.3840	-.3790
270.000	-.3850	-.3770	-.3760

MACH (3) = 1.101 BETAT (5) = 2.090

X/LNP	.250	.500	.750
PHI			
.000	-.3820	-.3840	
90.000	-.3910	-.3840	-.3790
135.000	-.3900	-.3850	-.3840
180.000	-.3780	-.3840	-.3860
225.000	-.3950	-.3870	-.3880
270.000	-.3840	-.3840	-.3780

MACH (3) = 1.103 BETAT (6) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3980	
90.000	-.4010	-.3940	-.3870
135.000	-.4010	-.3980	-.3870
180.000	-.3930	-.4050	-.4040
225.000	-.4090	-.4010	-.4030
270.000	-.3990	-.3950	-.3830

MACH (3) = 1.100 BETAT (7) = 6.230

X/LNP	.250	.500	.750
PHI			
.000	-.3920	-.3990	
90.000	-.4 30	-.3980	-.3890
135.000	-.4050	-.4020	-.3980
180.000	-.3960	-.4020	-.4040
225.000	-.4230	-.4040	-.4050

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD11)

SECTION . UPPER MPS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.100 BETAT (7) = 6.230

X/LNP	.250	.500	.750
PHI			
270.000	-.3990	-.3890	-.3910

MACH (3) = 1.100 BETAT (8) = 8.300

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.4010	
90.000	-.4080	-.4040	-.4010
135.000	-.4110	-.4110	-.4110
180.000	-.3260	-.4140	-.4080
225.000	-.4380	-.4080	-.4140
270.000	-.4040	-.3990	-.3940

MACH (4) = 1.245 BETAT (1) = -8.110

X/LNP	.250	.500	.750
PHI			
.000	-.3400	-.3430	
90.000	-.3530	-.3450	-.3380
135.000	-.3540	-.3450	-.3450
180.000	-.2470	-.3520	-.3410
225.000	-.3530	-.3490	-.3450
270.000	-.3510	-.3460	-.3450

MACH (4) = 1.249 BETAT (2) = -6.070

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3300	
90.000	-.3400	-.3340	-.3270
135.000	-.3420	-.3330	-.3390
180.000	-.2970	-.3350	-.3310
225.000	-.3350	-.3340	-.3300
270.000	-.3380	-.3320	-.3290

MACH (4) = 1.249 BETAT (3) = -4.040

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3270	
90.000	-.3290	-.3280	-.3210
135.000	-.3340	-.3310	-.3310
180.000	-.3130	-.3310	-.3290
225.000	-.3280	-.3250	-.3250
270.000	-.3290	-.3240	-.3250

MACH (4) = 1.248 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
.000	-.3180	-.3210	
90.000	-.3260	-.3210	-.3160
135.000	-.3230	-.3250	-.3240
180.000	-.3070	-.3230	-.3210
225.000	-.3220	-.3220	-.3180

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD11)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.248 BETAT (4) = -2.020

X/LNP	.250	.500	.750
PHI			
270.000	-.3240	-.3210	-.3170

MACH (4) = 1.246 BETAT (5) = 2.080

X/LNP	.250	.500	.750
PHI			
.000	-.3100	-.3140	
90.000	-.3170	-.3120	-.3150
135.000	-.3160	-.3170	-.3140
180.000	-.3080	-.3220	-.3180
225.000	-.3210	-.3190	-.3165
270.000	-.3200	-.3160	-.3140

MACH (4) = 1.247 BETAT (6) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3240	
90.000	-.3240	-.3230	-.3210
135.000	-.3250	-.3210	-.3230
180.000	-.2950	-.3270	-.3240
225.000	-.3330	-.3260	-.3290
270.000	-.3270	-.3250	-.3210

MACH (4) = 1.246 BETAT (7) = 6.180

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3270	
90.000	-.3310	-.3290	-.3270
135.000	-.3300	-.3320	-.3300
180.000	-.2650	-.3330	-.3300
225.000	-.3440	-.3350	-.3350
270.000	-.3350	-.3290	-.3250

MACH (4) = 1.247 BETAT (8) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3320	
90.000	-.3430	-.3370	-.3330
135.000	-.3410	-.3390	-.3350
180.000	-.1560	-.3540	-.3300
225.000	-.3510	-.3450	-.3360
270.000	-.3420	-.3370	-.3300

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD12) (28 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
.000	-.4095	-.4120	
90.000	-.4090	-.4090	-.4090
135.000	-.4180	-.4200	-.4150
180.000	-.2880	-.3750	-.4050
225.000	-.4390	-.4070	-.4120
270.000	-.4310	-.4130	-.4020

MACH (1) = 1.100 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.4090	-.4130	
90.000	-.4000	-.3930	-.3920
135.000	-.3980	-.3930	-.3900
180.000	-.2390	-.3930	-.3900
225.000	-.4260	-.3940	-.3880
270.000	-.4110	-.4070	-.3910

MACH (1) = 1.097 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3970	-.3960	
90.000	-.3860	-.3870	-.3720
135.000	-.3800	-.3870	-.3710
180.000	-.1690	-.3770	-.3810
225.000	-.3897	-.3850	-.3810
270.000	-.3930	-.3820	-.3800

MACH (1) = 1.099 BETAT (4) = 4.160

X/LNP	.250	.500	.750
PHI			
.000	-.4040	-.4110	
90.000	-.4060	-.4110	-.3890
135.000	-.4220	-.3870	-.3900
180.000	-.1690	-.3900	-.3840
225.000	-.3970	-.3910	-.3850
270.000	-.3950	-.3900	-.3830

MACH (1) = 1.105 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
.000	-.4080	-.4030	
90.000	-.4280	-.4130	-.3970
135.000	-.4320	-.4030	-.4000
180.000	-.1830	-.3490	-.4000
225.000	-.4230	-.4200	-.4000

AMES 11-707 IA9 CRA + S3 + T9 UPPER MPS NOZZLE

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.105 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
270.000	-.3970	-.4020	-.3990

MACH (2) = 1.250 BETAT (1) = -8.120

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3360	
90.000	-.3350	-.3380	-.3400
135.000	-.3640	-.3580	-.3410
180.000	-.2040	-.2780	-.3440
225.000	-.3750	-.3420	-.3410
270.000	-.3550	-.3450	-.3400

MACH (2) = 1.251 BETAT (2) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3440	
90.000	-.3330	-.3360	-.3330
135.000	-.3540	-.3390	-.3330
180.000	-.1490	-.2910	-.3330
225.000	-.3620	-.3460	-.3330
270.000	-.3420	-.3420	-.3330

MACH (2) = 1.246 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3380	
90.000	-.3300	-.3290	-.3250
135.000	-.3290	-.3360	-.3260
180.000	-.0860	-.3070	-.3260
225.000	-.3320	-.3390	-.3270
270.000	-.3310	-.3340	-.3260

MACH (2) = 1.245 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3290	
90.000	-.3250	-.3270	-.3200
135.000	-.3410	-.3290	-.3220
180.000	-.1190	-.2680	-.3230
225.000	-.3380	-.3340	-.3240
270.000	-.3220	-.3240	-.3240

MACH (2) = 1.247 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3320	
90.000	-.3550	-.3440	-.3400
135.000	-.3720	-.3530	-.3390
180.000	-.0830	-.1320	-.3440
225.000	-.3730	-.3520	-.3410

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (R9MC12)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3270	-.3320	-.3300

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3030	-.3100	
90.000	-.3040	-.3070	-.3070
135.000	-.3150	-.3100	-.3080
180.000	-.2330	-.2970	-.3060
225.000	-.3160	-.3080	-.3080
270.000	-.3170	-.3120	-.3070

MACH (1) = 1.098 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.2860	-.2900	
90.000	-.2820	-.2820	-.2800
135.000	-.2820	-.2830	-.2810
180.000	-.2230	-.2820	-.2810
225.000	-.2940	-.2830	-.2810
270.000	-.2900	-.2880	-.2830

MACH (1) = 1.101 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3030	-.3060	
90.000	-.3030	-.3010	-.2950
135.000	-.2990	-.2990	-.2960
180.000	-.2050	-.3000	-.2960
225.000	-.3030	-.3010	-.2970
270.000	-.3030	-.3010	-.2980

MACH (1) = 1.097 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3700	-.3750	
90.000	-.3730	-.3710	-.3640
135.000	-.3710	-.3640	-.3630
180.000	-.1870	-.3660	-.3620
225.000	-.3670	-.3650	-.3620
270.000	-.3680	-.3640	-.3610

MACH (1) = 1.102 BETAT (5) = 8.290

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.3940	
90.000	-.4180	-.4000	-.3930
135.000	-.4220	-.3960	-.3910
180.000	-.1410	-.3630	-.3910
225.000	-.4140	-.4 [illegible]	-.3910

AMES 11-7[illegible] IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD13)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (5) = 8.290

X/LNP	.250	.500	.750
PHI			
270.000	-.3940	-.3950	-.3870

MACH (2) = 1.245 BETAT (1) = -8.130

X/LNP	.250	.500	.750
PHI			
.000	.0430	.0350	
90.000	.0430	.0340	.0340
135.000	.0250	.0300	.0330
180.000	.0900	.0610	.0320
225.000	.0240	.0310	.0310
270.000	.0280	.0310	.0310

MACH (2) = 1.251 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.1420	-.1500	
90.000	-.1410	-.1460	-.1460
135.000	-.1490	-.1460	-.1460
180.000	-.0670	-.1370	-.1450
225.000	-.1540	-.1490	-.1460
270.000	-.1500	-.1500	-.1460

MACH (2) = 1.246 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.0590	-.0650	
90.000	-.0590	-.0630	-.0630
135.000	-.0600	-.0620	-.0630
180.000	.0220	-.0590	-.0620
225.000	-.0610	-.0640	-.0630
270.000	-.0640	-.0640	-.0620

MACH (2) = 1.245 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.0180	-.0260	
90.000	-.0230	-.0270	-.0240
135.000	-.0300	-.0280	-.0240
180.000	.0710	-.0150	-.0230
225.000	-.0280	-.0260	-.0250
270.000	-.0220	-.0260	-.0220

MACH (2) = 1.247 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.0250	-.0320	
90.000	-.0340	-.0340	-.0340
135.000	-.0420	-.0370	-.0330
180.000	.0660	.0190	-.0330
225.000	-.0440	-.0360	-.0330

AMES 11-757 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD13)

SECTION (1)MFS NOZZLE

DEPENDENT VARIABLE C_P

MACH (2) = 1.247 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
270.000	-.0300	-.0310	-.0290

DATE 20 SEP 73 CALCULATED PRESSURE DATA - IA9A

AMES 11-FT T IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD14) (28 APR 73)

REFERENCE DATA

SREF	=	2.4210 SQ.FT.	XMRP	=	28.5300 INCHES
LREF	=	39.8490 INCHES	YMRP	=	.0000 INCHES
BREF	=	39.8490 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0300 SCALE			

PARAMETRIC DATA

ALPHAT =	-4.000	ORBINC =	.500
RUDDER =	-5.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)MPS NOZZLE — DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.190

PHI \ X/LNP	.250	.500	.750
.000	-.3850	-.3940	
90.000	-.3870	-.3910	-.3820
135.000	-.3940	-.3940	-.3830
180.000	-.2430	-.3980	-.3800
225.000	-.4080	-.3950	-.3840
270.000	-.4070	-.3940	-.3830

MACH (1) = 1.101 BETAT (2) = -4.080

PHI \ X/LNP	.250	.500	.750
.000	-.3990	-.4040	
90.000	-.3950	-.3940	-.3800
135.000	-.3880	-.3830	-.3810
180.000	-.3000	-.3830	-.3820
225.000	-.4040	-.3840	-.3830
270.000	-.4000	-.4000	-.3870

MACH (1) = 1.099 BETAT (3) = .020

PHI \ X/LNP	.250	.500	.750
.000	-.3850	-.3930	
90.000	-.3860	-.3820	-.3690
135.000	-.3750	-.3730	-.3680
180.000	-.2370	-.3680	-.3680
225.000	-.3810	-.3690	-.3680
270.000	-.3900	-.3800	-.3680

MACH (1) = 1.103 BETAT (4) = 4.130

PHI \ X/LNP	.250	.500	.750
.000	-.3890	-.3950	
90.000	-.3970	-.3900	-.3820
135.000	-.3980	-.3840	-.3820
180.000	-.2280	-.3900	-.3810
225.000	-.3880	-.3880	-.3760
270.000	-.3890	-.3850	-.3760

MACH (1) = 1.099 BETAT (5) = 8.260

PHI \ X/LNP	.250	.500	.750
.000	-.3770	-.3790	
90.000	-.3960	-.3810	-.3700
135.000	-.3870	-.3780	-.3690
180.000	-.1430	-.3820	-.3750
225.000	-.3920	-.3830	-.3770

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3800	-.3700	-.3670

MACH (2) = 1.246 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3310	
90.000	-.3290	-.3300	-.3310
135.000	-.3660	-.3490	-.3320
180.000	-.1930	-.2800	-.3340
225.000	-.3670	-.3380	-.3350
270.000	-.3560	-.3440	-.3360

MACH (2) = 1.244 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3500	
90.000	-.3380	-.3420	-.3350
135.000	-.3420	-.3380	-.3380
180.000	-.1930	-.3300	-.3380
225.000	-.3590	-.3410	-.3370
270.000	-.3510	-.3450	-.3360

MACH (2) = 1.247 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3360	
90.000	-.3330	-.3220	-.3190
135.000	-.3250	-.3260	-.3180
180.000	-.1470	-.3240	-.3180
225.000	-.3260	-.3260	-.3170
270.000	-.3350	-.3250	-.3170

MACH (2) = 1.245 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3220	-.3320	
90.000	-.3400	-.3310	-.3240
135.000	-.3500	-.3220	-.3260
180.000	-.0970	-.3110	-.3170
225.000	-.3360	-.3250	-.3190
270.000	-.3260	-.3250	-.3180

MACH (2) = 1.250 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3210	-.3200	
90.000	-.3390	-.3270	-.3250
135.000	-.3530	-.3320	-.3270
180.000	-.0780	-.2960	-.3270
225.000	-.3580	-.3340	-.3270

DATE 25 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD14)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.250 BETAT (5) = 0.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3150	-.3200	-.3130

AMES 11-70? TAB CEA + SS & 14 LOWER LPS NOZZLE

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZ?F

DEPENDENT VARIABLE CP

MACH (1) = 1.151 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.2470	-.2560	
90.000	-.2510	-.2530	-.2490
135.000	-.2520	-.2520	-.2490
180.000	-.1870	-.2590	-.2500
225.000	-.2610	-.2590	-.2560
270.000	-.2580	-.2570	-.2540

MACH (1) = 1.101 BETAT (2) = -4.08[illegible]

X/LNP	.250	.500	.750
PHI			
.000	-.2590	-.2680	
90.000	-.2650	-.2650	-.2620
135.000	-.2620	-.2620	-.2630
180.000	-.2340	-.2610	-.2590
225.000	-.2650	-.2620	-.2600
270.000	-.2660	-.2650	-.2620

MACH (1) = 1.103 BETAT (3) = .030

X/LNP	.250	.500	.750
PHI			
.000	-.2170	-.2250	
90.000	-.2220	-.2210	-.2200
135.000	-.2210	-.2170	-.2190
180.000	-.1750	-.2170	-.2170
225.000	-.2220	-.2170	-.2170
270.000	-.2240	-.2200	-.2190

MACH (1) = 1.097 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3740	-.3800	
90.000	-.3810	-.3770	-.3660
135.000	-.3750	-.3740	-.3680
180.000	-.2620	-.3750	-.3680
225.000	-.3760	-.3740	-.3660
270.000	-.3810	-.3760	-.3630

MACH (1) = 1.100 BETAT (5) = 4.250

X/LNP	.250	.500	.750
PHI			
.000	-.3760	-.3780	
90.000	-.3940	-.3820	-.3740
135.000	-.3850	-.3830	-.3720
180.000	-.1600	-.3920	-.3730
225.000	-.3930	-.3800	-.3770

AMES 11-7?7 IA9 C?A + S3 + T9 UPPER MPS NOZZLE (RBM?15)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3780	-.3780	-.3670

MACH (2) = 1.245 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.0230	-.0280	
90.000	-.0220	-.0270	-.0250
135.000	-.0370	-.0320	-.0280
180.000	.0250	-.0180	-.0260
225.000	-.0370	-.0290	-.0290
270.000	-.0350	-.0300	-.0290

MACH (2) = 1.249 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.0520	-.0600	
90.000	-.0540	-.0580	-.0570
135.000	-.0570	-.0570	-.0580
180.000	-.0640	-.0580	-.0570
225.000	-.0630	-.0580	-.0570
270.000	-.0620	-.0580	-.0580

MACH (2) = 1.247 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	.1410	.1320	
90.000	.1390	.1350	.1360
135.000	.1390	.1350	.1360
180.000	.1890	.1360	.1370
225.000	.1380	.1360	.1360
270.000	.1350	.1360	.1360

MACH (2) = 1.247 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	.1110	.1060	
90.000	.1040	.1060	.1080
135.000	.1030	.1080	.1080
180.000	.1730	.1080	.1090
225.000	.1060	.1080	.1090
270.000	.1070	.1080	.1090

MACH (2) = 1.246 BETAT (5) = 8.200

X/LNP	.25?	.500	.750
PHI			
.000	.0010	-.0090	
90.000	-.0120	-.0110	-.0090
135.000	-.0180	-.0100	-.0090
180.000	.0970	.0060	-.0110
225.000	-.0170	-.0150	-.0110

AMES 11-7X7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM=15)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.0070	-.0090	-.0070

AMES 11-FT IA9 O2A + S3 + T9 UPPER MFS NOZZLE RUN16((28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .00 DFBINC = .500
RUDDER = -5.00 ELEVON = .000
RUDFLR = .00

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.210

X/LNF	.250	.500	.750
PHI			
.000	-.3960	-.3970	
90.000	-.3980	-.3920	-.3870
135.000	-.3980	-.3950	-.3870
180.000	-.2730	-.4070	-.3890
225.000	-.4240	-.4080	-.3980
270.000	-.4050	-.4030	-.3940

MACH (1) = 1.098 BETAT (2) = -4.090

X/LNF	.250	.500	.750
PHI			
.000	-.3890	-.3940	
90.000	-.3930	-.3930	-.3810
135.000	-.3870	-.3850	-.3820
180.000	-.3390	-.3860	-.3820
225.000	-.3910	-.3860	-.3840
270.000	-.3890	-.3870	-.3840

MACH (1) = 1.100 BETAT (3) = .020

X/LNF	.250	.500	.750
PHI			
.000	-.3750	-.3890	
90.000	-.3840	-.3780	-.3660
135.000	-.3810	-.3750	-.3660
180.000	-.3090	-.3690	-.3680
225.000	-.3830	-.3720	-.3670
270.000	-.3940	-.3790	-.3720

MACH (1) = 1.100 BETAT (4) = 4.130

X/LNF	.250	.500	.750
PHI			
.000	-.3810	-.3920	
90.000	-.3930	-.3830	-.3710
135.000	-.3870	-.3850	-.3710
180.000	-.3120	-.3830	-.3720
225.000	-.3900	-.3780	-.3710
270.000	-.3920	-.3850	-.3760

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNF	.250	.500	.750
PHI			
.000	-.3810	-.3840	
90.000	-.3980	-.3840	-.3840
135.000	-.4000	-.3880	-.3850
180.000	-.1890	-.3940	-.3820
225.000	-.3990	-.3870	-.3810

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3890	-.3820	-.3730

MACH (2) = 1.247 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3320	
90.000	-.3290	-.3320	-.3260
135.000	-.3560	-.3440	-.3260
180.000	-.1790	-.3240	-.3260
225.000	-.3540	-.3390	-.3360
270.000	-.3520	-.3400	-.3340

MACH (2) = 1.249 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3440	
90.000	-.3380	-.3370	-.3320
135.000	-.3400	-.3360	-.3310
180.000	-.2400	-.3380	-.3310
225.000	-.3460	-.3340	-.3310
270.000	-.3450	-.3370	-.3360

MACH (2) = 1.247 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3230	-.3310	
90.000	-.3300	-.3250	-.3250
135.000	-.3250	-.3210	-.3240
180.000	-.1990	-.3210	-.3220
225.000	-.3220	-.3200	-.3220
270.000	-.3310	-.3250	-.3230

MACH (2) = 1.244 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3190	-.3250	
90.000	-.3130	-.3220	-.3230
135.000	-.3320	-.3180	-.3230
180.000	-.1760	-.3230	-.3220
225.000	-.3260	-.3230	-.3220
270.000	-.3260	-.3230	-.3160

MACH (2) = 1.244 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3320	
90.000	-.3570	-.3400	-.3340
135.000	-.3606	-.3390	-.3340
180.000	-.0680	-.3200	-.3370
225.000	-.3620	-.3480	-.3370

AMES 11-7U7 MA9 CEA + 33 + 19 UPPER MPS NOZZLE

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 1.244 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3320	-.3340	-.3270

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RUN 171 [illegible] 28 APR 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRF = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.3960	
90.000	-.3960	-.3890	-.3830
135.000	-.3890	-.3880	-.3820
180.000	-.3050	-.3970	-.3860
225.000	-.4080	-.4010	-.4010
270.000	-.3990	-.3940	-.3910

MACH (1) = 1.098 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3690	-.3830	
90.000	-.3750	-.3840	-.3760
135.000	-.3720	-.3770	-.3780
180.000	-.3410	-.3770	-.3780
225.000	-.3790	-.3780	-.3790
270.000	-.3810	-.3810	-.3790

MACH (1) = 1.102 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3560	-.3710	
90.000	-.3700	-.3710	-.3640
135.000	-.3680	-.3660	-.3660
180.000	-.3260	-.3620	-.3630
225.000	-.3710	-.3650	-.3620
270.000	-.3730	-.3690	-.3650

MACH (1) = 1.100 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3780	-.3880	
90.000	-.3870	-.3800	-.3780
135.000	-.3830	-.3800	-.3760
180.000	-.3510	-.3800	-.3750
225.000	-.3910	-.3790	-.3760
270.000	-.3910	-.3850	-.3740

MACH (1) = 1.095 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3000	-.3050	
90.000	-.3070	-.3050	-.3030
135.000	-.3140	-.3070	-.3030
180.000	-.2180	-.3100	-.3020
225.000	-.3091	-.3060	-.3020

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD17)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3060	-.3060	-.3020

MACH (2) = 1.244 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	.1300	.1240	
90.000	.1280	.1240	.1230
135.000	.1190	.1200	.1230
180.000	.1740	.1180	.1230
225.000	.1190	.1180	.1200
270.000	.1190	.1180	.1200

MACH (2) = 1.251 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	.1000	.0930	
90.000	.0960	.0940	.0930
135.000	.0940	.0930	.0930
180.000	.1090	.0930	.0950
225.000	.0940	.0930	.0940
270.000	.0920	.0930	.0940

MACH (2) = 1.248 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	.0750	.0670	
90.000	.0710	.0690	.0690
135.000	.0700	.0700	.0700
180.000	.1060	.0700	.0700
225.000	.0690	.0690	.0700
270.000	.0680	.0700	.0690

MACH (2) = 1.244 BETAT (4) = 4.100

X/LNP	.250	.500	.750
PHI			
.000	.0510	.0450	
90.000	.0460	.0440	.0450
135.000	.0460	.0460	.0460
180.000	.0780	.0460	.0470
225.000	.0450	.0450	.0460
270.000	.0460	.0450	.0460

MACH (2) = 1.249 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	.0530	.0470	
90.000	.0430	.0460	.0460
135.000	.0410	.0450	.0460
180.000	.1360	.0510	.0490
225.000	.0410	.0410	.0470

AMES 11-707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 1.245 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	.0480	.0460	.0490

AMES 11-7?7 IA9 C?A + S3 + T9 UPPER MPS NOZZLE (RBMD1B) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORJINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3930	
90.000	-.3900	-.3880	-.3780
135.000	-.3940	-.3870	-.3780
180.000	-.3240	-.3970	-.3850
225.000	-.4120	-.4020	-.3980
270.000	-.4000	-.3920	-.3930

MACH (1) = 1.099 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3890	
90.000	-.3890	-.3890	-.3790
135.000	-.3880	-.3840	-.3790
180.000	-.3640	-.3860	-.3820
225.000	-.3880	-.3850	-.3830
270.000	-.3910	-.3830	-.3820

MACH (1) = 1.098 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3650	-.3770	
90.000	-.3800	-.3770	-.3700
135.000	-.3790	-.3690	-.3660
180.000	-.3470	-.3680	-.3650
225.000	-.3760	-.3730	-.3660
270.000	-.3840	-.3740	-.3670

MACH (1) = 1.100 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3760	-.3840	
90.000	-.3850	-.3830	-.3800
135.000	-.3850	-.3860	-.3770
180.000	-.3840	-.3850	-.3760
225.000	-.3930	-.3820	-.3770
270.000	-.3890	-.3880	-.3740

MACH (1) = 1.099 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3895	-.3880	
90.000	-.4020	-.3940	-.3880
135.000	-.4030	-.3960	-.3880
180.000	-.2810	-.3970	-.3890
225.000	-.4.6	-.39.4	-.3890

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC18)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE Cp

MACH (1) = 1.099 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3630	-.3870	-.3780

MACH (2) = 1.244 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3410	
90.000	-.3460	-.3410	-.3360
135.000	-.3560	-.3460	-.3370
180.000	-.2370	-.3560	-.3410
225.000	-.3580	-.3530	-.3500
270.000	-.3550	-.3510	-.3440

MACH (2) = 1.244 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3370	
90.000	-.3380	-.3370	-.3350
135.000	-.3400	-.3360	-.3350
180.000	-.2680	-.3360	-.3350
225.000	-.3350	-.3360	-.3330
270.000	-.3380	-.3350	-.3320

MACH (2) = 1.247 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3340	
90.000	-.3370	-.3320	-.3300
135.000	-.3350	-.3300	-.3300
180.000	-.2660	-.3280	-.3290
225.000	-.3320	-.3290	-.3290
270.000	-.3320	-.3280	-.3290

MACH (2) = 1.249 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3330	
90.000	-.3360	-.3320	-.3260
135.000	-.3320	-.3280	-.3260
180.000	-.2620	-.3300	-.3260
225.000	-.3330	-.3300	-.3260
270.000	-.3330	-.3300	-.3250

MACH (2) = 1.245 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3430	
90.000	-.3590	-.3450	-.3500
135.000	-.3630	-.3510	-.3470
180.000	-.1530	-.3480	-.3410
225.000	-.3640	-.3540	-.3410

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC18)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.245 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3460	-.3430	-.34??

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD19) (20 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.2930	-.2990	
90.000	-.2950	-.2970	-.2950
135.000	-.3090	-.3000	-.2970
180.000	-.2780	-.3010	-.2970
225.000	-.3050	-.3020	-.3010
270.000	-.3010	-.3010	-.3020

MACH (1) = 1.098 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3020	-.3040	
90.000	-.3050	-.3030	-.2980
135.000	-.3050	-.3040	-.3050
180.000	-.2980	-.3050	-.3050
225.000	-.3050	-.3030	-.3030
270.000	-.3050	-.3030	-.3010

MACH (1) = 1.101 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3200	-.3250	
90.000	-.3250	-.3220	-.3200
135.000	-.3240	-.3210	-.3220
180.000	-.3160	-.3190	-.3190
225.000	-.3250	-.3190	-.3190
270.000	-.3250	-.3220	-.3210

MACH (1) = 1.103 BETAT (4) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.2560	-.2570	
90.000	-.2590	-.2580	-.2570
135.000	-.2610	-.2600	-.2570
180.000	-.2630	-.2630	-.2630
225.000	-.2650	-.2640	-.2620
270.000	-.2610	-.2610	-.2560

MACH (1) = 1.100 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
.000	-.3630	-.3660	
90.000	-.3710	-.3710	-.3660
135.000	-.3740	-.3750	-.3660
180.000	-.3240	-.3750	-.3660
225.000	-.3860	-.3750	-.3670

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD19)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.155 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
270.000	-.3670	-.3670	-.3600

MACH (2) = 1.246 BETAT (1) = -8.120

X/LNP	.250	.500	.750
PHI			
.000	.1310	.1260	
90.000	.1260	.1250	.1270
135.000	.1240	.1240	.1270
180.000	.1610	.1200	.1250
225.000	.1220	.1220	.1240
270.000	.1230	.1220	.1250

MACH (2) = 1.250 BETAT (2) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	.0090	.0040	
90.000	.0060	.0040	.0060
135.000	.0040	.0040	.0040
180.000	.0130	.0040	.0050
225.000	.0050	.0040	.0050
270.000	.0040	.0040	.0050

MACH (2) = 1.247 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	.0500	.0420	
90.000	.0430	.0410	.0420
135.000	.0430	.0430	.0420
180.000	.0560	.0420	.0430
225.000	.0420	.0420	.0420
270.000	.0400	.0420	.0420

MACH (2) = 1.245 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.0060	-.0110	
90.000	-.0090	-.0090	-.0080
135.000	-.0090	-.0090	-.0080
180.000	.0001	-.0110	-.0080
225.000	-.0110	-.0100	-.0090
270.000	-.0110	-.0100	-.0090

MACH (2) = 1.244 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.0030	-.0050	
90.000	-.0080	-.0070	-.0050
135.000	-.0100	-.0090	-.0060
180.000	.0600	-.0120	-.0040
225.000	-.0110	-.0100	-.0050

AMES 11-7ft IA9 OEA + S3 + T9 UPPER MPS NOZZLE (RUN 219)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.244 (STAT (4) = 0.230

X/LNP	.250	.500	.750
PHI			
270.000	-.0070	-.0090	-.0055

AMES 11-7D7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMC20) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.4040	-.4040	
90.000	-.4110	-.4110	-.3970
135.000	-.4330	-.4150	-.3990
180.000	-.3340	-.4130	-.4050
225.000	-.4230	-.4140	-.4080
270.000	-.4190	-.4110	-.4090

MACH (1) = 1.101 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3940	
90.000	-.3930	-.3900	-.3820
135.000	-.4060	-.4030	-.3970
180.000	-.3860	-.4020	-.3950
225.000	-.4010	-.3950	-.3910
270.000	-.3970	-.3910	-.3910

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3820	-.3860	
90.000	-.3850	-.3810	-.3730
135.000	-.3920	-.3800	-.3710
180.000	-.3730	-.3740	-.3720
225.000	-.3890	-.3770	-.3730
270.000	-.3880	-.3760	-.3730

MACH (1) = 1.100 BETAT (4) = 4.160

X/LNP	.250	.500	.750
PHI			
.000	-.3780	-.3870	
90.000	-.3900	-.3860	-.3840
135.000	-.3910	-.3860	-.3830
180.000	-.3920	-.3930	-.3910
225.000	-.4020	-.3960	-.3930
270.000	-.3840	-.3860	-.3800

MACH (1) = 1.099 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3920	
90.000	-.4070	-.3980	-.3910
135.000	-.4110	-.4100	-.3910
180.000	-.3220	-.4150	-.3970
225.000	-.4320	-.4150	-.4050

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD2)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
270.000	-.4010	-.3940	-.3890

MACH (2) = 1.246 BETAT (1) = -8.110

X/LNP	.250	.500	.750
PHI			
.000	-.3470	-.3490	
90.000	-.3610	-.3520	-.3470
135.000	-.3600	-.3510	-.3460
180.000	-.2560	-.3590	-.3470
225.000	-.3550	-.3540	-.3490
270.000	-.3560	-.3560	-.3520

MACH (2) = 1.248 BETAT (2) = -4.040

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3360	
90.000	-.3400	-.3380	-.3320
135.000	-.3430	-.3390	-.3320
180.000	-.3130	-.3380	-.3370
225.000	-.3350	-.3360	-.3350
270.000	-.3370	-.3360	-.3300

MACH (2) = 1.245 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3310	
90.000	-.3340	-.3300	-.3300
135.000	-.3290	-.3280	-.3270
180.000	-.3140	-.3260	-.3270
225.000	-.3340	-.3260	-.3270
270.000	-.3350	-.3260	-.3260

MACH (2) = 1.245 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3360	
90.000	-.3370	-.3340	-.3300
135.000	-.3370	-.3340	-.3360
180.000	-.3160	-.3350	-.3370
225.000	-.3430	-.3380	-.3380
270.000	-.3380	-.3390	-.3370

MACH (2) = 1.245 BETAT (5) = 7.210

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3460	
90.000	-.3510	-.3490	-.3410
135.000	-.3510	-.3480	-.3410
180.000	-.3010	-.3470	-.3440
225.000	-.3570	-.3490	-.3450

AMES 11-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 1.243 BETAT (5) = 7.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3520	-.3480	-.3380

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA* = -8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDDLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
.000	-.4090	-.4090	
90.000	-.4090	-.4120	-.4070
135.000	-.4140	-.4240	-.4050
180.000	-.2990	-.3830	-.4030
225.000	-.4400	-.4080	-.4090
270.000	-.4240	-.4120	-.4000

MACH (1) = 1.104 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.4120	-.4230	
90.000	-.4050	-.4090	-.4030
135.000	-.4010	-.4070	-.4030
180.000	-.2340	-.3960	-.4020
225.000	-.4380	-.4100	-.4030
270.000	-.4220	-.4180	-.4020

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.4150	-.4100	
90.000	-.4100	-.4030	-.3950
135.000	-.4060	-.4080	-.3950
180.000	-.1630	-.3910	-.3930
225.000	-.4140	-.4110	-.3930
270.000	-.4130	-.3980	-.3940

MACH (1) = 1.101 BETAT (4) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.4140	-.4080	
90.000	-.4190	-.4080	-.3950
135.000	-.4360	-.4010	-.3950
180.000	-.1400	-.4060	-.3950
225.000	-.4060	-.4040	-.3940
270.000	-.4040	-.4000	-.3900

MACH (1) = 1.100 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
.000	-.4090	-.4110	
90.000	-.4360	-.4190	-.397[illegible]
135.000	-.4350	-.4120	-.405[illegible]
180.000	-.1890	-.3540	-.404[illegible]
225.000	-.4280	-.4230	-.4090

AMES 11-7X7 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD21)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
270.000	-.4070	-.4090	-.4100

MACH (2) = 1.245 BETAT (1) = -8.120

X/LNP	.250	.500	.750
PHI			
.000	-.3410	-.3390	
90.000	-.3380	-.3400	-.3450
135.000	-.3650	-.3610	-.3470
180.000	-.2050	-.2880	-.3470
225.000	-.3800	-.3500	-.3450
270.000	-.3560	-.3490	-.3430

MACH (2) = 1.252 BETAT (2) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3410	
90.000	-.3320	-.3340	-.3330
135.000	-.3540	-.3390	-.3320
180.000	-.1370	-.2760	-.3360
225.000	-.3560	-.3480	-.3340
270.000	-.3390	-.3400	-.3330

MACH (2) = 1.250 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3430	
90.000	-.3400	-.3360	-.3330
135.000	-.3390	-.3450	-.3300
180.000	-.0770	-.3020	-.3320
225.000	-.3450	-.3440	-.3310
270.000	-.3420	-.3380	-.3330

MACH (2) = 1.246 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3330	
90.000	-.3270	-.3330	-.3240
135.000	-.3460	-.3370	-.3260
180.000	-.1080	-.2670	-.3270
225.000	-.3460	-.3380	-.3290
270.000	-.3240	-.3280	-.3270

MACH (2) = 1.247 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3350	
90.000	-.3570	-.3490	-.3430
135.000	-.3830	-.3500	-.3430
180.000	-.0680	-.2130	-.3490
225.000	-.3740	-.3640	-.3500

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC21)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3350	-.3370	-.3390

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3940	
90.000	-.3920	-.3890	-.3920
135.000	-.4030	-.3980	-.3910
180.000	-.2550	-.3710	-.3940
225.000	-.4190	-.4000	-.3970
270.000	-.4180	-.4060	-.3920

MACH (1) = 1.097 BETAT (2) = -4.130

X/LNP	.250	.500	.750
PHI			
.000	-.4100	-.4160	
90.000	-.4030	-.3970	-.3890
135.000	-.3990	-.3950	-.3910
180.000	-.2630	-.3930	-.3880
225.000	-.4230	-.3950	-.3980
270.000	-.4080	-.4040	-.3950

MACH (1) = 1.098 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3870	-.3920	
90.000	-.3860	-.3820	-.3720
135.000	-.3770	-.3810	-.3720
180.000	-.1850	-.3750	-.3730
225.000	-.3830	-.3790	-.3720
270.000	-.3900	-.3840	-.3720

MACH (1) = 1.100 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.4040	-.4130	
90.000	-.4150	-.4090	-.3970
135.000	-.4210	-.4020	-.3950
180.000	.1090	-.3900	-.3990
225.000	-.4030	-.4000	-.4000
270.000	-.4060	-.4010	-.3940

MACH (1) = 1.099 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
.000	-.4060	-.4070	
90.000	-.4320	-.4110	-.3970
135.000	-.4380	-.4030	-.4010
180.000	-.1350	-.3590	-.4000
225.000	-.4190	-.4130	-.4040

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
270.000	-.4050	-.3970	-.3970

MACH (2) = 1.247 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3300	
90.000	-.3260	-.3300	-.3310
135.000	-.3650	-.3440	-.3310
180.000	-.1910	-.2480	-.3320
225.000	-.3650	-.3380	-.3340
270.000	-.3500	-.3400	-.3340

MACH (2) = 1.247 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3410	
90.000	-.3280	-.3300	-.3280
135.000	-.3440	-.3330	-.3280
180.000	-.1450	-.3040	-.3280
225.000	-.3560	-.3380	-.3310
270.000	-.3380	-.3380	-.3300

MACH (2) = 1.250 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3430	
90.000	-.3350	-.3350	-.3280
135.000	-.3340	-.3390	-.3290
180.000	-.0970	-.3120	-.3290
225.000	-.3350	-.3380	-.3290
270.000	-.3360	-.3350	-.3280

MACH (2) = 1.250 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3430	
90.000	-.3440	-.3430	-.3330
135.000	-.3620	-.3450	-.3320
180.000	-.0700	-.2890	-.3330
225.000	-.3540	-.3410	-.3350
270.000	-.3300	-.3320	-.3330

MACH (2) = 1.249 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3250	
90.000	-.3450	-.3340	-.3310
135.000	-.3660	-.3420	-.3300
180.000	-.0670	-.1520	-.3370
225.000	-.3630	-.3390	-.3320

AMES 11-7U7 IA9 O2A + S3 + T9 UPPER MFS NOZZLE (SB4D22)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH .21 = 1.249 BETAT (5) = 8.230

X/LNF	.250	.500	.750
PHI			
270.000	-.3180	-.3230	-.3190

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (R9MD23) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3900	
90.000	-.3820	-.3860	-.3830
135.000	-.3900	-.3900	-.3840
180.000	-.2390	-.3860	-.3780
225.000	-.4060	-.3890	-.3840
270.000	-.4070	-.3890	-.3820

MACH (1) = 1.097 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3980	-.4050	
90.000	-.3960	-.3960	-.3860
135.000	-.3900	-.3900	-.3860
180.000	-.2870	-.3820	-.3840
225.000	-.4110	-.3880	-.3840
270.000	-.3990	-.3950	-.3900

MACH (1) = 1.101 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3970	
90.000	-.3850	-.3830	-.3780
135.000	-.3820	-.3750	-.3750
180.000	-.2250	-.3730	-.3710
225.000	-.3850	-.3760	-.3740
270.000	-.3880	-.3780	-.3740

MACH (1) = 1.102 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3980	-.4010	
90.000	-.4000	-.3960	-.3920
135.000	-.4010	-.3920	-.3920
180.000	-.2090	-.3920	-.3860
225.000	-.3910	-.3900	-.3940
270.000	-.3930	-.3920	-.3900

MACH (1) = 1.098 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3880	
90.000	-.4060	-.3960	-.3860
135.000	-.4100	-.3870	-.3860
180.000	-.1370	-.3960	-.3880
225.000	-.4040	-.3930	-.3890

AMES 11 707 IA9 C24 + S3 + T9 UPPER MFS NOZZLE (RSMC23)

SECTION (1) MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.199 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3870	-.3910	-.3780

MACH (2) = 1.248 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3300	
90.000	-.3230	-.3310	-.3280
135.000	-.3650	-.3440	-.3280
180.000	-.1940	-.2630	-.3320
225.000	-.3660	-.3340	-.3350
270.000	-.3520	-.3410	-.3330

MACH (2) = 1.249 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3420	
90.000	-.3310	-.3290	-.3290
135.000	-.3410	-.3310	-.3280
180.000	-.1670	-.3210	-.3270
225.000	-.3570	-.3340	-.3320
270.000	-.3440	-.3390	-.3310

MACH (2) = 1.248 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3420	
90.000	-.3340	-.3330	-.3290
135.000	-.3330	-.3340	-.3280
180.000	-.1210	-.3240	-.3280
225.000	-.3370	-.3330	-.3230
270.000	-.3390	-.3310	-.3280

MACH (2) = 1.247 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3380	
90.000	-.3420	-.3370	-.3310
135.000	-.3550	-.3360	-.3290
180.000	-.0760	-.3100	-.3290
225.000	-.3430	-.3340	-.3290
270.000	-.3290	-.3300	-.3260

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3270	
90.000	-.3500	-.3370	-.3330
135.000	-.3630	-.3390	-.3330
180.000	-.0680	-.1990	-.3330
225.000	-.3590	-.3440	-.3330

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD23)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3210	-.3250	-.3230

AMES 11-7X7 1A9 02A + S3 + T9 UPPER MFS NOZZLE (RBMD24) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.849. INCHES ZMRP = .0000 INCHES
SCALE = .030 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORGINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.3950	
90.000	-.3950	-.3900	-.3790
135.000	-.4000	-.3890	-.3860
180.000	-.2560	-.4010	-.3890
225.000	-.4160	-.4060	-.3970
270.000	-.4070	-.4060	-.3910

MACH (1) = 1.098 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.4120	
90.000	-.4030	-.4020	-.3880
135.000	-.3950	-.3950	-.3900
180.000	-.3230	-.3880	-.3860
225.000	-.4110	-.3920	-.3930
270.000	-.4060	-.3940	-.3910

MACH (1) = 1.098 BETAT (3) = .030

X/LNP	.250	.500	.750
PHI			
.000	-.3810	-.3870	
90.000	-.3940	-.3810	-.3760
135.000	-.3860	-.3790	-.3710
180.000	-.2600	-.3740	-.3680
225.000	-.3850	-.3740	-.3710
270.000	-.3890	-.3750	-.3730

MACH (1) = 1.097 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3950	
90.000	-.3880	-.3890	-.3720
135.000	-.3840	-.3800	-.3770
180.000	-.2560	-.3840	-.3710
225.000	-.3860	-.3810	-.3720
270.000	-.3930	-.3840	-.3770

MACH (1) = 1.101 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3910	
90.000	-.4080	-.3930	-.3850
135.000	-.4080	-.3970	-.3870
180.000	-.1460	-.4050	-.3830
225.000	-.3980	-.3940	-.3830

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM024)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3900	-.3860	-.3790

MACH (2) = 1.246 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3310	
90.000	-.3240	-.3250	-.3270
135.000	-.3560	-.3420	-.3320
180.000	-.1870	-.2970	-.3290
225.000	-.3580	-.3360	-.3340
270.000	-.3520	-.3370	-.3330

MACH (2) = 1.249 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3430	
90.000	-.3350	-.3390	-.3310
135.000	-.3410	-.3360	-.3340
180.000	-.1900	-.3340	-.3330
225.000	-.3590	-.3340	-.3320
270.000	-.3480	-.3430	-.3320

MACH (2) = 1.249 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3390	
90.000	-.3340	-.3310	-.3250
135.000	-.3310	-.3320	-.3250
180.000	-.1620	-.3230	-.3240
225.000	-.3320	-.3260	-.3220
270.000	-.3340	-.3300	-.3240

MACH (2) = 1.249 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3360	
90.000	-.3420	-.3370	-.3310
135.000	-.3500	-.3280	-.3310
180.000	-.0900	-.3300	-.3260
225.000	-.3370	-.3310	-.3260
270.000	-.3310	-.3320	-.3240

MACH (2) = 1.248 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3410	
90.000	-.3620	-.3480	-.3410
135.000	-.3770	-.3460	-.3430
180.000	-.0450	-.2530	-.3450
225.000	-.3710	-.3540	-.3470

AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMC24)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH 2) = 1.248 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3340	-.3370	-.3360

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD251 (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -10.164 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3920	-.3960	
90.000	-.3940	-.3880	-.3810
135.000	-.3960	-.3890	-.3830
180.000	-.2800	-.4050	-.3900
225.000	-.4130	-.4070	-.4030
270.000	-.4040	-.3990	-.3930

MACH (1) = 1.095 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3790	-.3970	
90.000	-.3920	-.3890	-.3830
135.000	-.3860	-.3830	-.3820
180.000	-.3380	-.3810	-.3790
225.000	-.3920	-.3860	-.3850
270.000	-.3910	-.3910	-.3830

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3850	-.3980	
90.000	-.3980	-.3930	-.3840
135.000	-.3960	-.3850	-.3840
180.000	-.2990	-.3810	-.3800
225.000	-.3970	-.3830	-.3810
270.000	-.3960	-.3860	-.3780

MACH (1) = 1.100 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.3930	
90.000	-.3940	-.3880	-.3790
135.000	-.3910	-.3830	-.3810
180.000	-.3170	-.3840	-.3840
225.000	-.3920	-.3870	-.3890
270.000	-.3950	-.3880	-.3860

MACH (1) = 1.096 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3870	-.3970	
90.000	-.4060	-.3990	-.3920
135.000	-.4060	-.4020	-.3970
180.000	-.1750	-.4110	-.3850
225.000	-.3360	-.3980	-.3850

AMES 11-7:7 IA9 C'A + S3 + T9 UPPER MFS NOZZLE (SBM025)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.096 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3940	-.3980	-.3820

MACH (2) = 1.246 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3330	
90.000	-.3280	-.3300	-.3280
135.000	-.3600	-.3460	-.3290
180.000	-.1870	-.3230	-.3310
225.000	-.3580	-.3400	-.3380
270.000	-.3540	-.3430	-.3360

MACH (2) = 1.246 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3380	
90.000	-.3330	-.3320	-.3270
135.000	-.3390	-.3330	-.3280
180.000	-.2350	-.3330	-.3290
225.000	-.3440	-.3310	-.3290
270.000	-.3440	-.3370	-.3290

MACH (2) = 1.249 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3360	
90.000	-.3340	-.3290	-.3270
135.000	-.3310	-.3300	-.3260
180.000	-.1750	-.3260	-.3270
225.000	-.3320	-.3280	-.3250
270.000	-.3360	-.3320	-.3270

MACH (2) = 1.251 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3330	
90.000	-.3420	-.3310	-.3300
135.000	-.3460	-.3280	-.3300
180.000	-.1470	-.3320	-.3250
225.000	-.3370	-.3320	-.3280
270.000	-.3300	-.3310	-.3240

MACH (2) = 1.248 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3400	
90.000	-.3650	-.3490	-.3370
135.000	-.3740	-.3430	-.3440
180.000	-.0620	-.2940	-.3440
225.000	-.3700	-.3570	-.3470

AMES 11-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBM525)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3350	-.3360	-.3390

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 UPPER MFS NOZZLE (RBM026) (28 APR 73)

REFERENCE DATA

SREF =	2.4219 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	2.000	ORBINC =	.500
RUDDER =	-10.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3870	-.3950	
90.000	-.3960	-.3900	-.3820
135.000	-.3910	-.3880	-.3840
180.000	-.2910	-.4040	-.3860
225.000	-.4170	-.4080	-.3980
270.000	-.4020	-.3990	-.3900

MACH (1) = 1.099 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3800	-.3880	
90.000	-.3910	-.3880	-.3780
135.000	-.3850	-.3780	-.3800
180.000	-.3350	-.3810	-.3770
225.000	-.3920	-.3850	-.3840
270.000	-.3860	-.3840	-.3840

MACH (1) = 1.100 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3730	-.3870	
90.000	-.3890	-.3880	-.3820
135.000	-.3890	-.3810	-.3770
180.000	-.3320	-.3770	-.3730
225.000	-.3880	-.3780	-.3760
270.000	-.3920	-.3830	-.3780

MACH (1) = 1.101 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3890	
90.000	-.3890	-.3850	-.3800
135.000	-.3860	-.3860	-.3790
180.000	-.3510	-.3860	-.3800
225.000	-.3930	-.3870	-.3810
270.000	-.3960	-.3890	-.3800

MACH (1) = 1.098 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.3920	
90.000	-.4060	-.3930	-.3940
135.000	-.4150	-.4010	-.3960
180.000	-.1980	-.4060	-.3870
225.000	-.3990	-.3970	-.3920

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD26)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = 1.098 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3960	-.3980	-.3870

MACH (2) = 1.247 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3370	
90.000	-.3350	-.3350	-.3300
135.000	-.3620	-.3490	-.3310
180.000	-.2150	-.3440	-.3350
225.000	-.3550	-.3430	-.3440
270.000	-.3510	-.3440	-.3390

MACH (2) = 1.250 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3330	
90.000	-.3310	-.3260	-.3230
135.000	-.3320	-.3260	-.3220
180.000	-.2670	-.3270	-.3240
225.000	-.3360	-.3260	-.3250
270.000	-.3360	-.3290	-.3250

MACH (2) = 1.248 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3370	
90.000	-.3350	-.3320	-.3260
135.000	-.3320	-.3250	-.3270
180.000	-.2080	-.3280	-.3260
225.000	-.3340	-.3310	-.3260
270.000	-.3340	-.3310	-.3260

MACH (2) = 1.246 BETAT (4) = 4.100

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3300	
90.000	-.3380	-.3300	-.3300
135.000	-.3390	-.3280	-.3280
180.000	-.2240	-.3360	-.3280
225.000	-.3340	-.3300	-.3300
270.000	-.3290	-.3300	-.3280

MACH (2) = 1.247 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3590	-.3510	
90.000	-.3720	-.3580	-.3520
135.000	-.3760	-.3580	-.3560
180.000	-.0930	-.3360	-.3520
225.000	-.3770	-.3680	-.3530

AMES 11-7X7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD26)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3475	-.3490	-.3510

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMC27) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3830	-.3870	
90.000	-.3910	-.3840	-.3810
135.000	-.3920	-.3810	-.3790
180.000	-.3200	-.3940	-.3850
225.000	-.4100	-.3970	-.3970
270.000	-.3990	-.3920	-.3900

MACH (1) = 1.099 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3850	-.3920	
90.000	-.3940	-.3880	-.3810
135.000	-.3890	-.3830	-.3810
180.000	-.3540	-.3880	-.3830
225.000	-.3890	-.3840	-.3830
270.000	-.3920	-.3810	-.3800

MACH (1) = 1.100 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3650	-.3770	
90.000	-.3820	-.3780	-.3710
135.000	-.3890	-.3710	-.3690
180.000	-.3470	-.3710	-.3650
225.000	-.3820	-.3740	-.3710
270.000	-.3830	-.3760	-.3720

MACH (1) = 1.099 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3860	-.3880	
90.000	-.3870	-.3810	-.3830
135.000	-.3880	-.3820	-.3790
180.000	-.3790	-.3870	-.3830
225.000	-.3900	-.3860	-.3820
270.000	-.3890	-.3900	-.3770

MACH (1) = 1.101 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.4020	
90.000	-.4110	-.4020	-.3980
135.000	-.4140	-.4040	-.3980
180.000	-.2710	-.4010	-.3920
225.000	-.4120	-.3950	-.4000

AMES 11-707 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RF#027)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.4030	-.3950	-.3870

MACH (2) = 1.249 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3390	
90.000	-.3400	-.3360	-.3340
135.000	-.3510	-.3470	-.3350
180.000	-.2330	-.3480	-.3360
225.000	-.3550	-.3470	-.3420
270.000	-.3490	-.3460	-.3400

MACH (2) = 1.247 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3370	
90.000	-.3350	-.3340	-.3300
135.000	-.3370	-.3330	-.3340
180.000	-.2870	-.3310	-.3320
225.000	-.3380	-.3320	-.3300
270.000	-.3380	-.3320	-.3290

MACH (2) = 1.249 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3390	
90.000	-.3410	-.3340	-.3330
135.000	-.3420	-.3340	-.3340
180.000	-.2420	-.3350	-.3310
225.000	-.3390	-.3330	-.3310
270.000	-.3380	-.3340	-.3310

MACH (2) = 1.251 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3350	
90.000	-.3370	-.3310	-.3320
135.000	-.3360	-.3300	-.3320
180.000	-.2540	-.3350	-.3320
225.000	-.3390	-.3330	-.3330
270.000	-.3340	-.3320	-.3300

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3510	-.3500	
90.000	-.3700	-.3570	-.3560
135.000	-.3720	-.3600	-.3600
180.000	-.1340	-.3520	-.3510
225.000	-.3730	-.3670	-.3500

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD27)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.215

X/LNP	.250	.500	.750
PHI			
270.000	-.3520	-.3510	-.3490

AMES 11-707 IA9 O2A + S3 + T9 UPPER MFS NOZZLE (RBMO28) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5350 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE C_P

MACH (1) = 1.099 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3890	-.3890	
90.000	-.3910	-.3870	-.3810
135.000	-.4150	-.3920	-.3830
180.000	-.3300	-.3980	-.3880
225.000	-.4070	-.4020	-.4000
270.000	-.3990	-.3990	-.3930

MACH (1) = 1.099 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3850	-.3890	
90.000	-.3910	-.3920	-.3760
135.000	-.3920	-.3950	-.3860
180.000	-.3720	-.3930	-.3900
225.000	-.3930	-.3890	-.3910
270.000	-.3910	-.3850	-.3860

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3670	-.3750	
90.000	-.3790	-.3760	-.3730
135.000	-.3800	-.3720	-.3720
180.000	-.3610	-.3690	-.3670
225.000	-.3830	-.3760	-.3670
270.000	-.3860	-.3740	-.3720

MACH (1) = 1.102 BETAT (4) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3910	
90.000	-.3970	-.3880	-.3830
135.000	-.3920	-.3930	-.3800
180.000	-.4000	-.4030	-.3910
225.000	-.4030	-.3920	-.3980
270.000	-.3960	-.3870	-.3820

MACH (1) = 1.099 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4050	
90.000	-.4160	-.4090	-.4060
135.000	-.4240	-.4160	-.4070
180.000	-.3170	-.4150	-.4040
225.000	-.4410	-.4100	-.4020

AMES 11-7D7 IA9 (2A + S3 + T9 UPPER MPS NOZZLE (RBMC28)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
270.000	-.4070	-.4050	-.3860

MACH (2) = 1.248 BETAT (1) = -8.130

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3420	
90.000	-.3470	-.3410	-.3350
135.000	-.3540	-.3470	-.3370
180.000	-.2440	-.3620	-.3390
225.000	-.3560	-.3480	-.3470
270.000	-.3500	-.3460	-.3450

MACH (2) = 1.251 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3380	
90.000	-.3390	-.3380	-.3320
135.000	-.3410	-.3380	-.3340
180.000	-.3010	-.3380	-.3340
225.000	-.3400	-.3360	-.3340
270.000	-.3410	-.3370	-.3330

MACH (2) = 1.249 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3360	
90.000	-.3330	-.3320	-.3290
135.000	-.3340	-.3270	-.3290
180.000	-.2850	-.3270	-.3290
225.000	-.3370	-.3280	-.3280
270.000	-.3370	-.3310	-.3280

MACH (2) = 1.245 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3390	
90.000	-.3420	-.3360	-.3360
135.000	-.3410	-.3360	-.3340
180.000	-.2770	-.3400	-.3350
225.000	-.3470	-.3380	-.3420
270.000	-.3420	-.3380	-.3340

MACH (2) = 1.245 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3530	-.3520	
90.000	-.3650	-.3590	-.3570
135.000	-.3730	-.3620	-.3575
180.000	-.1470	-.3680	-.3520
225.000	-.3710	-.3670	-.3550

AMES 11-7X7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC28)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.245 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
270.000	-.3560	-.3540	-.3540

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC29) (28 APR 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.4040	-.4020	
90.000	-.4120	-.4020	-.3920
135.000	-.4280	-.4090	-.4030
180.000	-.3420	-.4070	-.3970
225.000	-.4170	-.4130	-.4060
270.000	-.4090	-.4080	-.4060

MACH (1) = 1.096 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.3950	
90.000	-.3910	-.3890	-.3830
135.000	-.4020	-.4020	-.4030
180.000	-.3800	-.4020	-.3930
225.000	-.3980	-.3940	-.3890
270.000	-.3990	-.3920	-.3900

MACH (1) = 1.098 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3870	-.3890	
90.000	-.3880	-.3830	-.3770
135.000	-.3920	-.3830	-.3770
180.000	-.3720	-.3770	-.3760
225.000	-.3910	-.3790	-.3760
270.000	-.3900	-.3830	-.3770

MACH (1) = 1.098 BETAT (4) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.3820	-.3890	
90.000	-.3920	-.3860	-.3800
135.000	-.3860	-.3900	-.3800
180.000	-.3820	-.3960	-.3890
225.000	-.4000	-.3930	-.3910
270.000	-.3830	-.3820	-.3770

MACH (1) = 1.098 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
.000	-.4030	-.3990	
90.000	-.4140	-.4070	-.4020
135.000	-.4270	-.4190	-.4140
180.000	-.2940	-.4190	-.4120
225.000	-.4360	-.4160	-.4180

AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD29)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.098 BETAT (5) = 8.310

X/LNF	.250	.500	.750
PHI			
270.000	-.4100	-.4040	-.4020

MACH (2) = 1.247 BETAT (1) = -8.100

X/LNF	.250	.500	.750
PHI			
.000	-.3450	-.3460	
90.000	-.3570	-.3480	-.3400
135.000	-.3590	-.3510	-.3460
180.000	-.2400	-.3580	-.3440
225.000	-.3540	-.3490	-.3460
270.000	-.3550	-.3470	-.3450

MACH (2) = 1.249 BETAT (2) = -4.040

X/LNF	.250	.500	.750
PHI			
.000	-.3340	-.3380	
90.000	-.3390	-.3380	-.3320
135.000	-.3460	-.3390	-.3420
180.000	-.3040	-.3400	-.3370
225.000	-.3380	-.3360	-.3360
270.000	-.3380	-.3360	-.3340

MACH (2) = 1.249 BETAT (3) = .020

X/LNF	.250	.500	.750
PHI			
.000	-.3300	-.3400	
90.000	-.3410	-.3380	-.3350
135.000	-.3370	-.3330	-.3330
180.000	-.3070	-.3330	-.3330
225.000	-.3420	-.3330	-.3330
270.000	-.3440	-.3410	-.3320

MACH (2) = 1.249 BETAT (4) = 4.130

X/LNF	.250	.500	.750
PHI			
.000	-.3400	-.3420	
90.000	-.3470	-.3400	-.3370
135.000	-.3450	-.3410	-.3390
180.000	-.3050	-.3440	-.3390
225.000	-.3520	-.3450	-.3400
270.000	-.3460	-.3440	-.3350

MACH (2) = 1.246 BETAT (5) = 8.250

X/LNF	.250	.500	.750
PHI			
.000	-.3550	-.3580	
90.000	-.3670	-.3690	-.3540
135.000	-.3690	-.3630	-.3570
180.000	-.1560	-.3800	-.3560
225.000	-.3730	-.3680	-.3580

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMC29)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3630	-.3590	-.3550

AMES 11-707 IA9 CEA + S3 + T9 UPPER MPS NOZZLE (RSM030) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.4130	-.4140	
90.000	-.4140	-.4160	-.4140
135.000	-.4210	-.4300	-.4130
180.000	-.3000	-.3830	-.4070
225.000	-.4420	-.4100	-.4140
270.000	-.4280	-.4200	-.4050

MACH (1) = 1.102 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.4140	-.4200	
90.000	-.4050	-.4050	-.3960
135.000	-.4010	-.4030	-.3970
180.000	-.2320	-.3910	-.3930
225.000	-.4340	-.4040	-.4000
270.000	-.4110	-.4150	-.3980

MACH (1) = 1.102 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.4110	-.4150	
90.000	-.4050	-.4030	-.3980
135.000	-.4010	-.4130	-.4020
180.000	-.1480	-.3940	-.4080
225.000	-.4080	-.4190	-.4020
270.000	-.4080	-.4100	-.4000

MACH (1) = 1.100 BETAT (4) = 4.160

X/LNP	.250	.500	.750
PHI			
.000	-.4230	-.4160	
90.000	-.4210	-.4150	-.3970
135.000	-.4590	-.4050	-.4030
180.000	-.1510	-.4020	-.4020
225.000	-.4120	-.4100	-.4010
270.000	-.4150	-.4060	-.4010

MACH (1) = 1.102 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
.000	-.4240	-.4260	
90.000	-.4520	-.4350	-.4150
135.000	-.4550	-.4270	-.4220
180.000	-.1520	-.3490	-.4170
225.000	-.4370	-.4410	-.4220

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM030)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
270.000	-.4220	-.4240	-.4210

MACH (2) = 1.244 BETAT (1) = -8.130

X/LNP	.250	.500	.750
PHI			
.000	-.3530	-.3480	
90.000	-.3510	-.3510	-.3550
135.000	-.3750	-.3700	-.3520
180.000	.2110	-.2890	-.3570
225.000	-.3890	-.3590	-.3530
270.000	-.3640	-.3570	-.3510

MACH (2) = 1.245 BETAT (2) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3460	
90.000	-.3370	-.3390	-.3360
135.000	-.3580	-.3400	-.3360
180.000	-.1410	-.2810	-.3360
225.000	-.3570	-.3480	-.3360
270.000	-.3390	-.3430	-.3340

MACH (2) = 1.249 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3490	
90.000	-.3380	-.3390	-.3380
135.000	-.3420	-.3450	-.3380
180.000	-.0720	-.3020	-.3390
225.000	-.3460	-.3500	-.3330
270.000	-.3420	-.3420	-.3370

MACH (2) = 1.245 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3330	
90.000	-.3310	-.3330	-.3240
135.000	-.3490	-.3360	-.3250
180.000	-.1010	-.2570	-.3280
225.000	-.3480	-.3390	-.3290
270.000	-.3300	-.3270	-.3260

MACH (2) = 1.247 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3430	-.3490	
90.000	-.3630	-.3520	-.3460
135.000	-.3890	-.3540	-.3460
180.000	-.0430	-.1510	-.3490
225.000	-.3790	-.3590	-.3540

AMES 11-7U7 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBMD3U)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (5) = 8.250

X/LNF	.250	.500	.750
PHI			
270.000	-.3350	-.3370	-.3390

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD31) (20 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.4120	-.4150	
90.000	-.4140	-.4110	-.4090
135.000	-.4220	-.4210	-.4100
180.000	-.2770	-.3820	-.4060
225.000	-.4370	-.4110	-.4130
270.000	-.4350	-.4190	-.4070

MACH (1) = 1.101 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.4170	-.4220	
90.000	-.4130	-.4070	-.3930
135.000	-.4050	-.4030	-.3990
180.000	-.2610	-.3940	-.3960
225.000	-.4300	-.4030	-.3980
270.000	-.4140	-.4160	-.4000

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4120	
90.000	-.3940	-.3960	-.3830
135.000	-.3890	-.3900	-.3860
180.000	-.1850	-.3870	-.3790
225.000	-.3980	-.3930	-.3790
270.000	-.4060	-.3940	-.3830

MACH (1) = 1.098 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.4210	-.4160	
90.000	-.4260	-.4060	-.3940
135.000	-.4230	-.4030	-.3950
180.000	-.1630	-.3990	-.3920
225.000	-.4080	-.3980	-.3960
270.000	-.4100	-.3990	-.3920

MACH (1) = 1.097 BETAT (5) = 8.280

Y/LNP	.250	.500	.750
PHI			
.000	-.4120	-.4160	
90.000	-.4410	-.4220	-.4090
135.000	-.4410	-.4050	-.4090
180.000	-.1160	-.3670	-.4050
225.000	-.4280	-.4180	-.4040

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD31)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
270.000	-.4050	-.4090	-.4020

MACH (2) = 1.247 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3360	
90.000	-.3300	-.3350	-.3320
135.000	-.3680	-.3480	-.3360
180.000	-.1940	-.2380	-.3360
225.000	-.3690	-.3410	-.3350
270.000	-.3500	-.3420	-.3370

MACH (2) = 1.248 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3520	
90.000	-.3400	-.3390	-.3350
135.000	-.3570	-.3400	-.3360
180.000	-.1450	-.3020	-.3340
225.000	-.3630	-.3490	-.3360
270.000	-.3470	-.3460	-.3370

MACH (2) = 1.251 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3440	-.3500	
90.000	-.3350	-.3360	-.3320
135.000	-.3360	-.3340	-.3310
180.000	-.0910	-.3120	-.3310
225.000	-.3410	-.3410	-.3330
270.000	-.3430	-.3400	-.3330

MACH (2) = 1.251 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3430	
90.000	-.3460	-.3430	-.3360
135.000	-.3610	-.3440	-.3370
180.000	-.0650	-.2800	-.3330
225.000	-.3550	-.3400	-.3340
270.000	-.3340	-.3330	-.3310

MACH (2) = 1.250 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3360	
90.000	-.3550	-.3460	-.3430
135.000	-.3780	-.3590	-.3440
180.000	-.0450	-.1600	-.3470
225.000	-.3770	-.3490	-.3410

AMES 11-707 IA9 CFA + S3 + T9 UPPER MPS NOZZLE (RBM031)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.250 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
270.000	-.3320	-.3340	-.3290

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD32) (28 APR 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	-4.000	ORBINC =	.500
RUDDER =	-15.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.4010	-.4030	
90.000	-.4010	-.3990	-.3930
135.000	-.4110	-.4030	-.3920
180.000	-.2560	-.3940	-.3910
225.000	-.4210	-.3990	-.4000
270.000	-.4180	-.4060	-.3960

MACH (1) = 1.098 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.4170	
90.000	-.3990	-.4010	-.3960
135.000	-.3960	-.3990	-.3950
180.000	-.2900	-.3880	-.3890
225.000	-.4150	-.3920	-.3920
270.000	-.4110	-.4090	-.3980

MACH (1) = 1.100 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.4020	
90.000	-.4000	-.3990	-.3790
135.000	-.3890	-.3870	-.3790
180.000	-.2200	-.3860	-.3790
225.000	-.3920	-.3930	-.3820
270.000	-.3960	-.3950	-.3840

MACH (1) = 1.101 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.4090	-.4170	
90.000	-.4160	-.4070	-.3950
135.000	-.4190	-.4020	-.3930
180.000	-.2000	-.4070	-.3920
225.000	-.4080	-.4010	-.3940
270.000	-.4090	-.4070	-.3940

MACH (1) = 1.101 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.3950	
90.000	-.4240	-.4010	-.3960
135.000	-.4160	-.4000	-.3940
180.000	-.1080	-.3980	-.3950
225.000	-.4130	-.4030	-.3980

AMES 11-7ft IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBM032)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3960	-.3940	-.3830

MACH (2) = 1.249 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3380	
90.000	-.3900	-.3360	-.3340
135.000	-.3710	-.3480	-.3340
180.000	-.1980	-.2550	-.3340
225.000	-.3710	-.3490	-.3370
270.000	-.3530	-.3400	-.3350

MACH (2) = 1.250 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3500	
90.000	-.3380	-.3410	-.3370
135.000	-.3500	-.3390	-.3360
180.000	-.1640	-.3190	-.3340
225.000	-.3620	-.3430	-.3370
270.000	-.3500	-.3430	-.3360

MACH (2) = 1.250 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3410	-.3480	
90.000	-.3350	-.3380	-.3340
135.000	-.3350	-.3390	-.3310
180.000	-.1170	-.3240	-.3310
225.000	-.3390	-.3380	-.3300
270.000	-.3430	-.3370	-.3290

MACH (2) = 1.246 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3390	
90.000	-.3390	-.3390	-.3320
135.000	-.3540	-.3370	-.3320
180.000	-.0610	-.3110	-.3310
225.000	-.3470	-.3320	-.3320
270.000	-.3320	-.3320	-.3310

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3350	-.3330	
90.000	-.3510	-.3380	-.3400
135.000	-.3700	-.3500	-.3400
180.000	-.0530	-.2350	-.3420
225.000	-.3720	-.3470	-.339

AMES 11-7D7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM032)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3260	-.3320	-.3290

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM033) (28 APR 73)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -9.200

X/LNP	.250	.500	.750
PHI			
.000	-.4000	-.4080	
90.000	-.4030	-.3980	-.3890
135.000	-.4010	-.4000	-.3920
180.000	-.2630	-.4120	-.3920
225.000	-.4280	-.4090	-.4020
270.000	-.4200	-.4080	-.3980

MACH (1) = 1.101 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.4080	
90.000	-.4030	-.4000	-.3920
135.000	-.3950	-.3950	-.3940
180.000	-.3140	-.3910	-.3890
225.000	-.4110	-.3940	-.3930
270.000	-.4060	-.4070	-.3950

MACH (1) = 1.100 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3970	
90.000	-.3940	-.3890	-.3810
135.000	-.3940	-.3760	-.3780
180.000	-.2570	-.3780	-.3770
225.000	-.3880	-.3780	-.3790
270.000	-.3930	-.3880	-.3837

MACH (1) = 1.101 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.4020	
90.000	-.4010	-.3980	-.3900
135.000	-.3980	-.3940	-.3840
180.000	-.2510	-.3970	-.3860
225.000	-.3920	-.3940	-.3860
270.000	-.3980	-.4010	-.3870

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.4010	
90.000	-.4190	-.4050	-.3960
135.000	-.4180	-.4040	-.3980
180.000	-.1180	-.4140	-.3940
225.000	-.4110	-.4040	-.3950

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD33)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.4020	-.4000	-.3920

MACH (2) = 1.247 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3340	
90.000	-.3290	-.3290	-.3300
135.000	-.3610	-.3440	-.3300
180.000	-.1930	-.2900	-.3300
225.000	-.3620	-.3360	-.3320
270.000	-.3570	-.3440	-.3330

MACH (2) = 1.246 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3380	-.3500	
90.000	-.3390	-.3490	-.3410
135.000	-.3450	-.3440	-.3390
180.000	-.1840	-.3320	-.3390
225.000	-.3660	-.3440	-.3390
270.000	-.3530	-.3480	-.3390

MACH (2) = 1.250 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3440	
90.000	-.3390	-.3340	-.3340
135.000	-.3350	-.3330	-.3330
180.000	-.1490	-.3280	-.3310
225.000	-.3330	-.3290	-.3250
270.000	-.3370	-.3340	-.3230

MACH (2) = 1.250 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3260	-.3330	
90.000	-.3460	-.3360	-.3270
135.000	-.3510	-.3310	-.3270
180.000	-.0770	-.3190	-.3260
225.000	-.3400	-.3340	-.3270
270.000	-.3300	-.3280	-.3250

MACH (2) = 1.248 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3330	
90.000	-.3500	-.3340	-.3330
135.000	-.3670	-.3390	-.3330
180.000	-.0230	-.2760	-.3430
225.000	-.3670	-.3480	-.3380

AMES 11-7D7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM033)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.248 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3260	-.3320	-.3240

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD34) (28 APR 73)

REFERENCE DATA

SREF =	2.4210 SQ.FT.	XMRP =	28.5300 INCHES		
LREF =	39.8490 INCHES	YMRP =	.0000 INCHES		
BREF =	39.8490 INCHES	ZMRP =	.0000 INCHES		
SCALE =	.0300 SCALE				

PARAMETRIC DATA

ALPHAT =	.000	ORBINC =	.500
RUDDER =	-15.000	ELEVON =	.000
RUDFLR =	.000		

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.4010	
90.000	-.4030	-.3920	-.3880
135.000	-.3990	-.3960	-.3880
180.000	-.2800	-.4120	-.3940
225.000	-.4240	-.4100	-.4070
270.000	-.4140	-.4060	-.3990

MACH (1) = 1.100 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3920	-.4030	
90.000	-.4010	-.3970	-.3940
135.000	-.3960	-.3900	-.3910
180.000	-.3310	-.3860	-.3900
225.000	-.4020	-.3930	-.3915
270.000	-.3970	-.4000	-.3860

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3820	-.3910	
90.000	-.3930	-.3860	-.3800
135.000	-.3930	-.3810	-.3800
180.000	-.2920	-.3770	-.3800
225.000	-.3950	-.3790	-.3800
270.000	-.3940	-.3910	-.3810

MACH (1) = 1.100 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.4030	
90.000	-.4010	-.3950	-.3910
135.000	-.4000	-.3890	-.3900
180.000	-.3090	-.3960	-.3900
225.000	-.4020	-.3910	-.3910
270.000	-.4020	-.3990	-.3900

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.4050	
90.000	-.4180	-.4090	-.3960
135.000	-.4240	-.4070	-.3980
180.000	-.1450	-.4230	-.3960
225.000	-.4160	-.4090	-.3970

AMES 11-707 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMC34)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.4060	-.4030	-.3880

MACH (2) = 1.249 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3350	
90.000	-.3300	-.3300	-.3270
135.000	-.3600	-.3450	-.3260
180.000	-.1990	-.3110	-.3300
225.000	-.3610	-.3400	-.3360
270.000	-.3550	-.3410	-.3360

MACH (2) = 1.250 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3450	
90.000	-.3420	-.3450	-.3360
135.000	-.3480	-.3440	-.3350
180.000	-.2160	-.3410	-.3350
225.000	-.3580	-.3400	-.3350
270.000	-.3500	-.3410	-.3350

MACH (2) = 1.249 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3410	
90.000	-.3370	-.3330	-.3290
135.000	-.3350	-.3310	-.3320
180.000	-.1720	-.3270	-.3300
225.000	-.3350	-.3310	-.3290
270.000	-.3360	-.3290	-.3270

MACH (2) = 1.245 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3340	
90.000	-.3410	-.3340	-.3290
135.000	-.3450	-.3270	-.3290
180.000	-.1330	-.3330	-.3280
225.000	-.3340	-.3290	-.3290
270.000	-.3310	-.3280	-.3270

MACH (2) = 1.247 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3390	-.3430	
90.000	-.3650	-.3500	-.3400
135.000	-.3740	-.3470	-.3410
180.000	-.0250	-.3170	-.3440
225.000	-.3760	-.3540	-.3450

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD34)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3370	-.3390	-.3370

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.102 BETAT (1) = -8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3980	-.4010	
90.000	-.3960	-.3930	-.3880
135.000	-.3980	-.3950	-.3910
180.000	-.2820	-.4070	-.3910
225.000	-.4140	-.4090	-.4040
270.000	-.4100	-.4060	-.3960

MACH (1) = 1.095 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.4010	
90.000	-.3950	-.3940	-.3830
135.000	-.3870	-.3880	-.3850
180.000	-.3380	-.3890	-.3850
225.000	-.3950	-.3900	-.3900
270.000	-.3950	-.3890	-.3900

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3770	-.3910	
90.000	-.3950	-.3880	-.3810
135.000	-.3910	-.3800	-.3790
180.000	-.3210	-.3750	-.3770
225.000	-.3890	-.3800	-.3810
270.000	-.3910	-.3890	-.3850

MACH (1) = 1.101 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3950	
90.000	-.3940	-.3930	-.3900
135.000	-.3940	-.3910	-.3850
180.000	-.3490	-.3900	-.3870
225.000	-.4000	-.3940	-.3920
270.000	-.4000	-.3960	-.3870

MACH (1) = 1.106 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3990	-.4060	
90.000	-.4160	-.4050	-.4010
135.000	-.4210	-.4070	-.4050
180.000	-.1800	-.4210	-.3990
225.000	-.4130	-.4160	-.4060

AMES 11-7ft IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD35)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.106 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.4100	-.4070	-.3970

MACH (2) = 1.248 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3390	
90.000	-.3380	-.3350	-.3330
135.000	-.3600	-.3510	-.3320
180.000	-.2140	-.3380	-.3330
225.000	-.3580	-.3430	-.3440
270.000	-.3530	-.3430	-.3410

MACH (2) = 1.244 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3380	
90.000	-.3340	-.3320	-.3290
135.000	-.3340	-.3320	-.3290
180.000	-.2630	-.3340	-.3290
225.000	-.3420	-.3310	-.3310
270.000	-.3410	-.3320	-.3320

MACH (2) = 1.250 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3450	
90.000	-.3380	-.3380	-.3350
135.000	-.3390	-.3320	-.3300
180.000	-.2010	-.3350	-.3310
225.000	-.3400	-.3350	-.3330
270.000	-.3440	-.3380	-.3340

MACH (2) = 1.248 BETAT (4) = 4.100

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3350	
90.000	-.3430	-.3330	-.3290
135.000	-.3430	-.3290	-.3270
180.000	-.2180	-.3360	-.3270
225.000	-.3370	-.3340	-.3320
270.000	-.3330	-.3330	-.3280

MACH (2) = 1.248 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3450	-.3480	
90.000	-.3630	-.3530	-.3450
135.000	-.3675	-.3500	-.3450
180.000	-.0640	-.3350	-.3450
225.000	-.3750	-.3640	-.3520

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM035)

SECTION (1):MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.240 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3440	-.3440	-.3390

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD36) (20 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.103 BETAT (1) = -6.200

X/LNP PHI	.250	.500	.750
.000	-.3930	-.3960	
90.000	-.3930	-.3920	-.3870
135.000	-.4060	-.3940	-.3880
180.000	-.3130	-.4000	-.3930
225.000	-.4100	-.4050	-.4050
270.000	-.4050	-.3990	-.3990

MACH (1) = 1.099 BETAT (2) = -4.090

X/LNP PHI	.250	.500	.750
.000	-.3900	-.3940	
90.000	-.3970	-.3940	-.3830
135.000	-.3930	-.3890	-.3890
180.000	-.3580	-.3880	-.3880
225.000	-.3990	-.3880	-.3870
270.000	-.3960	-.3880	-.3870

MACH (1) = 1.098 BETAT (3) = .020

X/LNP PHI	.250	.500	.750
.000	-.3700	-.3840	
90.000	-.3890	-.3870	-.3850
135.000	-.3890	-.3790	-.3760
180.000	-.3510	-.3770	-.3750
225.000	-.3880	-.3780	-.3780
270.000	-.3940	-.3880	-.3780

MACH (1) = 1.098 BETAT (4) = 4.140

X/LNP PHI	.250	.500	.750
.000	-.3860	-.3900	
90.000	-.3940	-.3880	-.3830
135.000	-.3930	-.3860	-.3860
180.000	-.3850	-.3900	-.3800
225.000	-.3960	-.3890	-.3860
270.000	-.3940	-.3890	-.3770

MACH (1) = 1.100 BETAT (5) = 8.260

X/LNP PHI	.250	.500	.750
.000	-.4010	-.4070	
90.000	-.4170	-.4070	-.4010
135.000	-.4180	-.4090	-.4020
180.000	-.2570	-.4110	-.4000
225.000	-.4110	-.4030	-.4030

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD36)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.4130	-.4060	-.3950

MACH (2) = 1.248 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3390	
90.000	-.3410	-.3380	-.3340
135.000	-.3540	-.3490	-.3350
180.000	-.2330	-.3480	-.3350
225.000	-.3580	-.3480	-.3470
270.000	-.3530	-.3470	-.3430

MACH (2) = 1.249 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3390	
90.000	-.3380	-.3380	-.3350
135.000	-.3400	-.3370	-.3350
180.000	-.2770	-.3360	-.3340
225.000	-.3420	-.3350	-.3340
270.000	-.3400	-.3360	-.3330

MACH (2) = 1.249 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3400	
90.000	-.3390	-.3360	-.3310
135.000	-.3400	-.3310	-.3310
180.000	-.2370	-.3340	-.3300
225.000	-.3380	-.3290	-.3310
270.000	-.3380	-.3320	-.3310

MACH (2) = 1.245 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3390	
90.000	-.3410	-.3360	-.3330
135.000	-.3430	-.3330	-.3320
180.000	-.2540	-.3360	-.3320
225.000	-.3440	-.3350	-.3370
270.000	-.3390	-.3340	-.3310

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3510	-.3540	
90.000	-.3710	-.3610	-.3560
135.000	-.3700	-.3610	-.3570
180.000	-.1190	-.3520	-.3570
225.000	-.3760	-.3680	-.3570

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD36)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.21[illegible]

X/LNP	.250	.500	.750
PHI			
270.000	-.3540	-.3510	-.3510

AMES 11-7D7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM037) (20 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.4000	
90.000	-.3970	-.3970	-.3890
135.000	-.4240	-.3980	-.3950
180.000	-.3310	-.4020	-.3930
225.000	-.4130	-.4060	-.4010
270.000	-.4110	-.4010	-.4000

MACH (1) = 1.100 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.3910	-.3950	
90.000	-.3930	-.3940	-.3810
135.000	-.3970	-.3950	-.3950
180.000	-.3720	-.3970	-.3920
225.000	-.3980	-.3930	-.3920
270.000	-.3940	-.3910	-.3920

MACH (1) = 1.098 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3800	-.3860	
90.000	-.3880	-.3830	-.3790
135.000	-.3960	-.3750	-.3780
180.000	-.3690	-.3730	-.3740
225.000	-.3890	-.3790	-.3740
270.000	-.3890	-.3830	-.3750

MACH (1) = 1.100 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3960	-.4000	
90.000	-.4040	-.3980	-.3900
135.000	-.4070	-.4010	-.3910
180.000	-.4050	-.4110	-.3970
225.000	-.4090	-.4030	-.4060
270.000	-.4020	-.3980	-.3860

MACH (1) = 1.099 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
.000	-.4040	-.4070	
90.000	-.4210	-.4120	-.4080
135.000	-.4210	-.4220	-.4110
180.000	-.3980	-.4190	-.4060
225.000	-.4400	-.417	-.4040

AMES 11-707 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD37)

SECTION (1) MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.280

X/LNP	.250	.500	.750
PHI			
270.000	-.4110	-.4050	-.3970

MACH (2) = 1.247 BETAT (1) = -8.130

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3440	
90.000	-.3510	-.3430	-.3360
135.000	-.3500	-.3500	-.3360
180.000	-.2370	-.3590	-.3400
225.000	-.3550	-.3490	-.3470
270.000	-.3550	-.3480	-.3460

MACH (2) = 1.248 BETAT (2) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3350	-.3420	
90.000	-.3410	-.3400	-.3370
135.000	-.3440	-.3400	-.3370
180.000	-.2920	-.3390	-.3380
225.000	-.3440	-.3370	-.3370
270.000	-.3420	-.3370	-.3360

MACH (2) = 1.247 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3340	
90.000	-.3380	-.3300	-.3300
135.000	-.3340	-.3310	-.3290
180.000	-.2770	-.3250	-.3250
225.000	-.3380	-.3270	-.3270
270.000	-.3390	-.3330	-.3280

MACH (2) = 1.252 BETAT (4) = 4.120

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3410	
90.000	-.3470	-.3410	-.3380
135.000	-.3440	-.3390	-.3370
180.000	-.2740	-.3420	-.3370
225.000	-.3490	-.3400	-.3410
270.000	-.3440	-.3420	-.3360

MACH (2) = 1.247 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
.000	-.3490	-.3510	
90.000	-.3660	-.3560	-.3530
135.000	-.3660	-.3580	-.3510
180.000	-.1320	-.3660	-.3510
225.000	-.3710	-.3660	-.3520

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD37)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.247 BETAT (5) = 8.230

X/LNP	.250	.500	.750
PHI			
270.000	-.3560	-.3520	-.3480

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD38) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (1) = -8.170

X/LNP	.250	.500	.750
PHI			
.000	-.4080	-.4100	
90.000	-.4130	-.4110	-.4080
135.000	-.4360	-.4150	-.4080
180.000	-.3270	-.4160	-.4080
225.000	-.4250	-.4150	-.4130
270.000	-.4210	-.4130	-.4140

MACH (1) = 1.099 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4090	
90.000	-.4010	-.3980	-.3910
135.000	-.4110	-.4110	-.4110
180.000	-.3820	-.4110	-.4060
225.000	-.4110	-.4020	-.3950
270.000	-.4090	-.4010	-.3980

MACH (1) = 1.099 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3950	
90.000	-.3910	-.3890	-.3810
135.000	-.3960	-.3870	-.3820
180.000	-.3790	-.3810	-.3820
225.000	-.3940	-.3820	-.3820
270.000	-.3960	-.3880	-.3820

MACH (1) = 1.095 BETAT (4) = 4.160

X/LNP	.250	.500	.750
PHI			
.000	-.3920	-.3980	
90.000	-.3970	-.3930	-.3920
135.000	-.3980	-.3970	-.3910
180.000	-.3930	-.4040	-.4020
225.000	-.4090	-.4010	-.4060
270.000	-.4010	-.3960	-.3870

MACH (1) = 1.097 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
.000	-.4110	-.4140	
90.000	-.4280	-.4180	-.4120
135.000	-.4270	-.4270	-.4110
180.000	-.2900	-.4360	-.4090
225.000	-.4420	-.4240	-.4180

AMES 11-70? 1A9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD36)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.097 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
270.000	-.4180	-.4110	-.4020

MACH (2) = 1.245 BETAT (1) = -8.110

X/LNP	.250	.500	.750
PHI			
.000	-.3450	-.3490	
90.000	-.3600	-.3490	-.3430
135.000	-.3580	-.3540	-.3440
180.000	-.2440	-.3610	-.3440
225.000	-.3580	-.3510	-.3450
270.000	-.3540	-.3490	-.3480

MACH (2) = 1.251 BETAT (2) = -4.040

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3410	
90.000	-.3440	-.3420	-.3350
135.000	-.3440	-.3430	-.3360
180.000	-.3000	-.3400	-.3370
225.000	-.3420	-.3360	-.3380
270.000	-.3450	-.3370	-.3370

MACH (2) = 1.246 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3360	
90.000	-.3410	-.3370	-.3310
135.000	-.3360	-.3330	-.3300
180.000	-.3070	-.3300	-.3300
225.000	-.3380	-.3320	-.3300
270.000	-.3410	-.3360	-.3300

MACH (2) = 1.245 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3410	
90.000	-.3440	-.3390	-.3350
135.000	-.3430	-.3390	-.3380
180.000	-.2930	-.3410	-.3380
225.000	-.3470	-.3440	-.3440
270.000	-.3470	-.3440	-.3410

MACH (2) = 1.245 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3510	-.3540	
90.000	-.3630	-.3560	-.3510
135.000	-.3610	-.3580	-.3530
180.000	-.1510	-.3720	-.3530
225.000	-.3730	-.3650	-.3540

AMES 11-7ft IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD38)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.245 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3610	-.3620	-.3510

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AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .5[illegible]
RUDDER = -5.[illegible] ELEVON = .[illegible]
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.199 BETAT (1) = -8.180

X/LNP	.250	.500	.750
PHI			
.000	-.4200	-.4210	
90.000	-.4200	-.4220	-.4220
135.000	-.4290	-.4320	-.4210
180.000	-.2990	-.3980	-.4180
225.000	-.4490	-.4230	-.4260
270.000	-.4360	-.4260	-.4180

MACH (1) = 1.097 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.4200	-.4250	
90.000	-.4110	-.4170	-.4020
135.000	-.4080	-.4090	-.4040
180.000	-.2500	-.4020	-.4030
225.000	-.4410	-.4090	-.4040
270.000	-.4310	-.4210	-.4040

MACH (1) = 1.098 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.4190	-.4120	
90.000	-.4070	-.3990	-.3880
135.000	-.3990	-.4030	-.3920
180.000	-.1720	-.3940	-.3940
225.000	-.4080	-.4020	-.3950
270.000	-.4090	-.4000	-.3940

MACH (1) = 1.154 BETAT (4) = 4.160

X/LNP	.250	.500	.750
PHI			
.000	-.4110	-.4240	
90.000	-.4130	-.4120	-.4010
135.000	-.4290	-.4030	-.4060
180.000	-.1810	-.4150	-.4020
225.000	-.4110	-.4110	-.4020
270.000	-.4120	-.4050	-.3950

MACH (1) = 1.199 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
.000	-.4280	-.4270	
90.000	-.4540	-.4330	-.4160
135.000	-.4570	-.4360	-.4230
180.000	-.2350	-.3910	-.4170
225.000	-.4440	-.4400	-.4200

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD39)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.310

X/LNP	.250	.500	.750
PHI			
270.000	-.4240	-.4230	-.4170

MACH (2) = 1.251 BETAT (1) = -8.120

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3280	
90.000	-.3300	-.3310	-.3370
135.000	-.3560	-.3530	-.3360
180.000	-.2030	-.2810	-.3360
225.000	-.3690	-.3370	-.3360
270.000	-.3490	-.3380	-.3340

MACH (2) = 1.249 BETAT (2) = -4.050

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3370	
90.000	-.3240	-.3270	-.3290
135.000	-.3470	-.3320	-.3290
180.000	-.1270	-.2820	-.3290
225.000	-.3490	-.3400	-.3290
270.000	-.3340	-.3350	-.3270

MACH (2) = 1.246 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3350	
90.000	-.3300	-.3240	-.3230
135.000	-.3310	-.3370	-.3210
180.000	-.0900	-.3050	-.3250
225.000	-.3340	-.3340	-.3240
270.000	-.3320	-.3290	-.3230

MACH (2) = 1.246 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3220	
90.000	-.3220	-.3220	-.3160
135.000	-.3380	-.3290	-.3160
180.000	-.1230	-.2580	-.3190
225.000	-.3340	-.3290	-.3210
270.000	-.3160	-.3180	-.3170

MACH (2) = 1.245 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3330	
90.000	-.3530	-.3470	-.3370
135.000	-.3770	-.3460	-.3370
180.000	-.0940	-.2170	-.3470
225.000	-.3750	-.3630	-.3460

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 OEA + S3 + T9 UPPER M'S NOZZLE (RBMD39)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.245 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3290	-.3360	-.3360

AMES 11-707 IA9 CEA + S3 + T9 UPPER MFS NOZZLE (RBMD40) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3970	-.4050	
90.000	-.4000	-.3990	-.3930
135.000	-.4080	-.3970	-.3970
180.000	-.2520	-.4080	-.3930
225.000	4180	-.4090	-.4040
270.000	-.4200	-.4080	-.4010

MACH (1) = 1.101 BETAT (2) = -4.080

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4090	
90.000	-.4030	-.3990	-.3910
135.000	-.3970	-.3950	-.3950
180.000	-.3030	-.3950	-.3890
225.000	-.4080	-.3970	-.3920
270.000	-.4030	-.4070	-.3960

MACH (1) = 1.101 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3950	
90.000	-.3910	-.3840	-.3810
135.000	-.3850	-.3740	-.3800
180.000	-.2440	-.3760	-.3760
225.000	-.3900	-.3770	-.3790
270.000	-.3930	-.3850	-.3800

MACH (1) = 1.099 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3930	-.3960	
90.000	-.3990	-.3850	-.3780
135.000	-.3950	-.3810	-.3750
180.000	-.2150	-.3860	-.3740
225.000	-.3880	-.3840	-.3790
270.000	-.3940	-.3840	-.3690

MACH (1) = 1.100 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3740	-.3770	
90.000	-.4000	-.3850	-.3780
135.000	-.3970	-.3850	-.3810
180.000	-.1530	-.3750	-.3770
225.000	-.3950	-.3940	-.3850

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD4D)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3820	-.3800	-.3710

MACH (2) = 1.244 BETAT (1) = -8.150

X/LNP	.250	.500	.750
PHI			
.000	-.3320	-.3380	
90.000	-.3270	-.3330	-.3350
135.000	-.3710	-.3480	-.3360
180.000	-.1970	-.2810	-.3350
225.000	-.3650	-.3430	-.3350
270.000	-.3570	-.3480	-.3340

MACH (2) = 1.245 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3350	-.3420	
90.000	-.3310	-.3310	-.3290
135.000	-.3390	-.3300	-.3270
180.000	-.1930	-.3270	-.3260
225.000	-.3540	-.3330	-.3270
270.000	-.3450	-.3430	-.3260

MACH (2) = 1.248 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3440	
90.000	-.3320	-.3280	-.3220
135.000	-.3270	-.3270	-.3230
180.000	-.1420	-.3230	-.3230
225.000	-.3300	-.3280	-.3230
270.000	-.3350	-.3290	-.3220

MACH (2) = 1.252 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3290	-.3390	
90.000	-.3440	-.3380	-.3280
135.000	-.3520	-.3300	-.3280
180.000	-.0930	-.3110	-.3250
225.000	-.3440	-.3320	-.3260
270.000	-.3320	-.3290	-.3250

MACH (2) = 1.250 BETAT (5) = 8.220

X/LNP	.250	.500	.750
PHI			
.000	-.3170	-.3190	
90.000	-.3410	-.3270	-.3250
135.000	-.3550	-.3280	-.3240
180.000	-.0880	-.1770	-.3260
225.000	-.3510	-.3340	-.3240

AMES 11-707 IA9 CBA + S3 + T9 UPPER MPS NOZZLE (RBMD40)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.250 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3140	-.3180	-.3140

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-707 IA9 ORA + S3 + T9 UPPER MPS NOZZLE (RBMD41) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.151 BETAT (1) = -8.200

X/LNP	.250	.500	.750
PHI			
.000	-.4060	-.4130	
90.000	-.4080	-.4050	-.3980
135.000	-.4030	-.4000	-.3990
180.000	-.2910	-.4200	-.4080
225.000	-.4300	-.4220	-.4170
270.000	-.4180	-.4150	-.4110

MACH (1) = 1.098 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.4020	-.4010	
90.000	-.4050	-.3960	-.3970
135.000	-.3920	-.3930	-.3930
180.000	-.3520	-.3960	-.3910
225.000	-.4040	-.3950	-.3930
270.000	-.4010	-.4040	-.3970

MACH (1) = 1.100 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3760	-.3890	
90.000	-.3900	-.3810	-.3740
135.000	-.3830	-.3750	-.3690
180.000	-.3060	-.3730	-.3730
225.000	-.3820	-.3730	-.3740
270.000	-.3870	-.3840	-.3760

MACH (1) = 1.100 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3850	-.3960	
90.000	-.3910	-.3840	-.3780
135.000	-.3840	-.3770	-.3750
180.000	-.3020	-.3840	-.3770
225.000	-.3890	-.3790	-.3770
270.000	-.3950	-.3850	-.3770

MACH (1) = 1.100 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3920	
90.000	-.4050	-.3940	-.3960
135.000	-.4120	-.4000	-.3890
180.000	-.1740	-.4040	-.3850
225.000	-.4000	-.3930	-.3810

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD41)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = 1.100 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3930	-.3920	-.3750

MACH (2) = 1.247 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.3340	-.3360	
90.000	-.3310	-.3330	-.3320
135.000	-.3620	-.3510	-.3320
180.000	-.1870	-.3290	-.3330
225.000	-.3620	-.3441	-.3420
270.000	-.3560	-.3431	-.3400

MACH (2) = 1.251 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3330	-.3370	
90.000	-.3350	-.3320	-.3280
135.000	-.3390	-.3320	-.3290
180.000	-.2410	-.3340	-.3280
225.000	-.3480	-.3310	-.3300
270.000	-.3440	-.3370	-.3290

MACH (2) = 1.246 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3270	-.3310	
90.000	-.3270	-.3280	-.3250
135.000	-.3270	-.3230	-.3230
180.000	-.2000	-.3270	-.3210
225.000	-.3290	-.3260	-.3210
270.000	-.3310	-.3310	-.3200

MACH (2) = 1.247 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3310	
90.000	-.3390	-.3310	-.3270
135.000	-.3370	-.3240	-.3260
180.000	-.1630	-.3340	-.3260
225.000	-.3350	-.3290	-.3260
270.000	-.3280	-.3280	-.3230

MACH (2) = 1.246 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
.000	-.3370	-.3390	
90.000	-.3620	-.3470	-.3400
135.000	-.3700	-.3440	-.3430
180.000	-.0680	-.2940	-.3440
225.000	-.3660	-.3470	-.3420

DATE 26 SEP 73 TABULATED PRESSURE DATA - IA9A

AMES 11-7D7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD41)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.200

X/LNP	.250	.500	.750
PHI			
270.000	-.3340	-.3370	-.3360

AMES 11-707 IA9 CBA + S3 + T9 UPPER MFS NOZZLE (RDMD42) (28 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MFS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.190

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3940	
90.000	-.3860	-.3860	-.3820
135.000	-.3900	-.3860	-.3830
180.000	-.3260	-.3980	-.3860
225.000	-.4120	-.4050	-.3980
270.000	-.4010	-.3960	-.3920

MACH (1) = 1.102 BETAT (2) = -4.090

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3890	
90.000	-.3920	-.3860	-.3760
135.000	-.3900	-.3820	-.3810
180.000	-.3570	-.3830	-.3830
225.000	-.3900	-.3830	-.3810
270.000	-.3900	-.3830	-.3810

MACH (1) = 1.098 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3670	-.3750	
90.000	-.3840	-.3780	-.3710
135.000	-.3850	-.3730	-.3700
180.000	-.3570	-.3660	-.3650
225.000	-.3870	-.3720	-.3700
270.000	-.3850	-.3750	-.3700

MACH (1) = 1.099 BETAT (4) = 4.140

X/LNP	.250	.500	.750
PHI			
.000	-.3830	-.3830	
90.000	-.3880	-.3810	-.3810
135.000	-.3870	-.3810	-.3820
180.000	-.3800	-.3860	-.3810
225.000	-.3920	-.3850	-.3850
270.000	-.3910	-.3870	-.3730

MACH (1) = 1.100 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
.000	-.3950	-.3900	
90.000	-.4040	-.3940	-.3900
135.000	-.4120	-.4020	-.3960
180.000	-.2540	-.4030	-.3870
225.000	-.4050	-.3940	-.3940

AMES 11-707 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBMD42)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.100 BETAT (5) = 8.260

X/LNP	.250	.500	.750
PHI			
270.000	-.3920	-.3940	-.3830

MACH (2) = 1.245 BETAT (1) = -8.140

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3420	
90.000	-.3460	-.3420	-.3380
135.000	-.3590	-.3520	-.3390
180.000	-.2320	-.3580	-.3390
225.000	-.3620	-.3520	-.3520
270.000	-.3540	-.3490	-.3450

MACH (2) = 1.246 BETAT (2) = -4.060

X/LNP	.250	.500	.750
PHI			
.000	-.3300	-.3390	
90.000	-.3350	-.3340	-.3290
135.000	-.3370	-.3340	-.3290
180.000	-.2880	-.3330	-.3290
225.000	-.3360	-.3330	-.3290
270.000	-.3370	-.3330	-.3290

MACH (2) = 1.249 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3240	-.3360	
90.000	-.3350	-.3340	-.3290
135.000	-.3350	-.3260	-.3240
180.000	-.2580	-.3280	-.3250
225.000	-.3350	-.3290	-.3260
270.000	-.3350	-.3320	-.3290

MACH (2) = 1.247 BETAT (4) = 4.110

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3350	
90.000	-.3350	-.3310	-.3290
135.000	-.3360	-.3290	-.3280
180.000	-.2620	-.3340	-.3290
225.000	-.3400	-.3330	-.3300
270.000	-.3350	-.3340	-.3300

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
.000	-.3470	-.3510	
90.000	-.3610	-.3570	-.3500
135.000	-.3710	-.3600	-.3510
180.000	-.1560	-.3570	-.3520
225.000	-.3690	-.3690	-.3530

AMES 11-707 IA9 O2A + S3 + T9 UPPER MFS NOZZLE (RBMD42)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.210

X/LNP	.250	.500	.750
PHI			
270.000	-.3510	-.3500	-.3450

AMES 11-7D7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD43) (28 APR 73)

REFERENCE DATA

SREF = 2.4215 SQ.FT. XMRP = 28.5500 INCHES
LREF = 39.8495 INCHES YMRP = .0000 INCHES
BREF = 39.8495 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
RUDDER = -5.000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.101 BETAT (1) = -8.160

X/LNP	.250	.500	.750
PHI			
.000	-.4010	-.4010	
90.000	-.4060	-.4030	-.3900
135.000	-.4260	-.4070	-.4020
180.000	-.3370	-.4060	-.4010
225.000	-.4180	-.4100	-.4070
270.000	-.4160	-.4030	-.4080

MACH (1) = 1.097 BETAT (2) = -4.070

X/LNP	.250	.500	.750
PHI			
.000	-.3900	-.3930	
90.000	-.3900	-.3900	-.3850
135.000	-.4010	-.4000	-.4000
180.000	-.3910	-.4020	-.4000
225.000	-.4020	-.3950	-.3920
270.000	-.4000	-.3930	-.3870

MACH (1) = 1.101 BETAT (3) = .010

X/LNP	.250	.500	.750
PHI			
.000	-.3840	-.3900	
90.000	-.3860	-.3850	-.3770
135.000	-.3900	-.3780	-.3790
180.000	-.3720	-.3840	-.3780
225.000	-.3930	-.3840	-.3780
270.000	-.3920	-.3840	-.3780

MACH (1) = 1.099 BETAT (4) = 4.150

X/LNP	.250	.500	.750
PHI			
.000	-.3850	-.3910	
90.000	-.3930	-.3870	-.3790
135.000	-.3960	-.3870	-.3810
180.000	-.3910	-.4000	-.3920
225.000	-.4100	-.3940	-.3980
270.000	-.3860	-.3860	-.3830

MACH (1) = 1.099 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
.000	-.3880	-.3950	
90.000	-.4040	-.4000	-.3850
135.000	-.4060	-.4020	-.3930
180.000	-.2970	-.4040	-.3970
225.000	-.4260	-.4060	.4010

AMES 11-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD43)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.099 BETAT (5) = 8.300

X/LNP	.250	.500	.750
PHI			
270.000	-.4000	-.3880	-.3870

MACH (2) = 1.245 BETAT (1) = -8.110

X/LNP	.250	.500	.750
PHI			
.000	-.3450	-.3480	
90.000	-.3600	-.3490	-.3420
135.000	-.3620	-.3530	-.3420
180.000	-.2480	-.3590	-.3430
225.000	-.3570	-.3530	-.3500
270.000	-.3580	-.3510	-.3490

MACH (2) = 1.249 BETAT (2) = -4.040

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3420	
90.000	-.3440	-.3420	-.3340
135.000	-.3490	-.3450	-.3350
180.000	-.3250	-.3440	-.3390
225.000	-.3440	-.3420	-.3380
270.000	-.3440	-.3400	-.3370

MACH (2) = 1.246 BETAT (3) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.3310	-.3370	
90.000	-.3380	-.3340	-.3340
135.000	-.3380	-.3310	-.3330
180.000	-.3160	-.3360	-.3330
225.000	-.3390	-.3330	-.3330
270.000	-.3420	-.3330	-.3320

MACH (2) = 1.245 BETAT (4) = 4.130

X/LNP	.250	.500	.750
PHI			
.000	-.3380	-.3420	
90.000	-.3460	-.3410	-.3380
135.000	-.3430	-.3420	-.3370
180.000	-.3110	-.3460	-.3380
225.000	-.3540	-.3470	-.3430
270.000	-.3460	-.3420	-.3370

MACH (2) = 1.246 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
.000	-.3530	-.3540	
90.000	-.3640	-.3590	-.3550
135.000	-.3660	-.3610	-.3550
180.000	-.1780	-.3750	-.3530
225.000	-.3750	-.3640	-.3560

AMES 11-707 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM043)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 1.246 BETAT (5) = 8.250

X/LNP	.250	.500	.750
PHI			
270.000	-.3630	-.3580	-.3530

AMES 11-7U7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE (RBMD44) (27 APR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .000 ORBINC = -1.250
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = .600 ALPHAT(1) = -8.050

X/LNP	.250	.500	.750
PHI			
.000	-.3280	-.3300	
90.000	-.3350	-.3250	-.3210
135.000	-.3340	-.3270	-.3210
180.000	-.3130	-.3220	-.3230
225.000	-.3310	-.3250	-.3250
270.000	-.3390	-.3250	-.3250

MACH (1) = .600 ALPHAT(2) = -5.990

X/LNP	.250	.500	.750
PHI			
.000	.3050	.3020	
90.000	.3060	.2970	.2890
135.000	.3070	.2910	.2860
180.000	.2870	.2890	.2840
225.000	.3070	.2920	.2870
270.000	.3080	.2930	.2890

MACH (1) = .598 ALPHAT(3) = -3.990

X/LNP	.250	.500	.750
PHI			
.000	.2990	.2930	
90.000	.2950	.2820	.2780
135.000	.3000	.2780	.2790
180.000	.2810	.2800	.2780
225.000	.3050	.2850	.2800
270.000	.2970	.2870	.2790

MACH (1) = .599 ALPHAT(4) = -1.970

X/LNP	.250	.500	.750
PHI			
.000	.2990	.2910	
90.000	.3020	.2860	.2830
135.000	.3090	.2930	.2820
180.000	.2860	.2890	.2850
225.000	.3150	.2950	.2880
270.000	.3090	.2960	.2900

MACH (1) = .600 ALPHAT(5) = .060

X/LNP	.250	.500	.750
PHI			
.000	.2920	.2880	
90.000	.3030	.2860	.2810
135.000	.3030	.2880	.2820
180.000	.2910	.2840	.2820
225.000	.3040	.2970	.2840

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = .600 ALPHAT(5) = .060

X/LNP	.250	.500	.750
PHI			
270.000	.3060	.2910	.2860

MACH (1) = .600 ALPHAT(6) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	.2930	.2780	
90.000	.2900	.2830	.2790
135.000	.2940	.2800	.2790
180.000	.2830	.2790	.2770
225.000	.2990	.2810	.2820
270.000	.3020	.2810	.2850

MACH (1) = .600 ALPHAT(7) = 4.010

X/LNP	.250	.500	.750
PHI			
.000	.2950	.2950	
90.000	.2990	.2930	.2900
135.000	.3030	.2920	.2760
180.000	.2900	.2910	.2840
225.000	.3050	.2970	.2950
270.000	.3000	.2960	.2890

MACH (1) = .598 ALPHAT(8) = 6.040

X/LNP	.250	.500	.750
PHI			
.000	.2680	.2830	
90.000	.2940	.2840	.2840
135.000	.2920	.2850	.2780
180.000	.2930	.2790	.2770
225.000	.3040	.2890	.2830
270.000	.2960	.2800	.2830

MACH (1) = .599 ALPHAT(9) = 8.020

X/LNP	.250	.500	.750
PHI			
.000	.2860	.2730	
90.000	.2930	.2760	.2760
135.000	.2910	.2820	.2730
180.000	.2820	.2750	.2750
225.000	.2970	.2840	.2840
270.000	.2920	.2830	.2790

MACH (2) = .901 ALPHAT(1) = -8.070

X/LNP	.250	.500	.750
PHI			
.000	.3200	.3190	
90.000	.3190	.3070	.3010
135.000	.3210	.3140	.3110
180.000	.3140	.3150	.3150
225.000	.3250	.3150	.3110

AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MPS NOZZLE (RBM044)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .901 ALPHAT(1) = -8.070

X/LNP	.250	.500	.750
PHI			
270.000	.3200	.3110	.3110

MACH (2) = .901 ALPHAT(2) = -6.030

X/LNP	.250	.500	.750
PHI			
.000	.3170	.3150	
90.000	.3180	.3060	.3060
135.000	.3240	.3100	.3010
180.000	.3120	.3080	.3020
225.000	.3220	.3070	.3060
270.000	.3180	.3060	.3060

MACH (2) = .899 ALPHAT(3) = -4.020

X/LNP	.250	.500	.750
PHI			
.000	.3100	.3120	
90.000	.3130	.3020	.2940
135.000	.3130	.3030	.2910
180.000	.3050	.2940	.2920
225.000	.3120	.2980	.2970
270.000	.3110	.2970	.2950

MACH (2) = .900 ALPHAT(4) = -1.890

X/LNP	.250	.500	.750
PHI			
.000	.3020	.3010	
90.000	.3110	.2980	.2860
135.000	.3090	.2890	.2870
180.000	.3000	.2900	.2880
225.000	.3100	.2940	.2930
270.000	.3010	.2910	.2940

MACH (2) = .902 ALPHAT(5) = .010

X/LNP	.250	.500	.750
PHI			
.000	.3120	.3040	
90.000	.3070	.3060	.2940
135.000	.3120	.3040	.2950
180.000	.3050	.3050	.2950
225.000	.3190	.3010	.2950
270.000	.3130	.3010	.2940

MACH (2) = .902 ALPHAT(6) = 1.990

X/LNP	.250	.500	.750
PHI			
.000	.3140	.3080	
90.000	.3110	.3050	.2990
135.000	.3090	.3040	.2970
180.000	.3050	.2990	.2950
225.000	.3110	.2990	.2950

AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (SRMC44)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = .902 ALPHAT(6) = 1.990

X/LNP	.250	.500	.750
PHI			
270.000	.3100	.3020	.2970

MACH (2) = .901 ALPHAT(7) = 4.010

X/LNP	.250	.500	.750
PHI			
.000	.3090	.3040	
90.000	.3100	.2990	.2870
135.000	.3060	.3010	.2990
180.000	.3040	.2950	.2950
225.000	.3140	.2980	.2980
270.000	.3090	.2990	.3030

MACH (2) = .904 ALPHAT(8) = 6.000

X/LNP	.250	.500	.750
PHI			
.000	.2950	.2930	
90.000	.3050	.2960	.2940
135.000	.3090	.2980	.2860
180.000	.2940	.2930	.2860
225.000	.3130	.2970	.3050
270.000	.3070	.3030	.2910

MACH (2) = .898 ALPHAT(9) = 7.990

X/LNP	.250	.500	.750
PHI			
.000	.3100	.3020	
90.000	.3100	.3080	.2940
135.000	.3220	.3040	.2950
180.000	.3090	.3010	.2930
225.000	.3280	.3100	.3030
270.000	.3170	.3090	.3020

MACH (3) = 1.103 ALPHAT(1) = -8.010

X/LNP	.250	.500	.750
PHI			
.000	-.3060	-.3070	
90.000	-.3040	-.3060	-.2990
135.000	-.3010	-.3070	-.3020
180.000	-.1380	-.2940	-.3050
225.000	-.3080	-.3110	-.3020
270.000	-.3040	-.3040	-.3020

MACH (3) = 1.097 ALPHAT(2) = -5.950

X/LNP	.250	.500	.750
PHI			
.000	-.3470	-.3490	
90.000	-.3480	-.3450	-.3490
135.000	-.3470	-.3490	-.3420
180.000	-.1790	-.3430	-.3420
225.000	-.3460	-.3470	-.3440

AMES 11-707 IA9 02A + S3 + T9 UPPER MFS NOZZLE (RBMD44)

SECTION 1 UPPER MFS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.097 ALPHAT(2) = -5.950

X/LNP	.250	.500	.750
PHI			
270.000	-.3520	-.3470	-.3450

MACH (3) = 1.100 ALPHAT(3) = -3.970

X/LNP	.250	.500	.750
PHI			
.000	-.3530	-.3590	
90.000	-.3530	-.3510	-.3450
135.000	-.3500	-.3490	-.3440
180.000	-.2050	-.3490	-.3480
225.000	-.3510	-.3510	-.3470
270.000	-.3560	-.3520	-.3480

MACH (3) = 1.102 ALPHAT(4) = -1.990

X/LNP	.250	.500	.750
PHI			
.000	-.3710	-.3780	
90.000	-.3770	-.3720	-.3640
135.000	-.3720	-.3670	-.3620
180.000	-.2400	-.3660	-.3650
225.000	-.3750	-.3650	-.3650
270.000	-.3770	-.3730	-.3660

MACH (3) = 1.100 ALPHAT(5) = .030

X/LNP	.250	.500	.750
PHI			
.000	-.3730	-.3840	
90.000	-.3810	-.3770	-.3690
135.000	-.3830	-.3710	-.3680
180.000	-.2860	-.3700	-.3670
225.000	-.3800	-.3700	-.3680
270.000	-.3810	-.3710	-.3710

MACH (3) = 1.101 ALPHAT(6) = 2.040

X/LNP	.250	.500	.750
PHI			
.000	-.3250	-.3370	
90.000	-.3340	-.3340	-.3310
135.000	-.3330	-.3300	-.3310
180.000	-.2960	-.3280	-.3290
225.000	-.3340	-.3290	-.3290
270.000	-.3370	-.3290	-.3320

MACH (3) = 1.102 ALPHAT(7) = 3.980

X/LNP	.250	.500	.750
PHI			
.000	-.3420	-.3610	
90.000	-.3600	-.3630	-.3580
135.000	-.3610	-.3610	-.3570
180.000	-.3320	-.3540	-.3560
225.000	-.3620	-.3560	-.3560

AMES 11-7U7 IA9 C2A + S3 + T9 UPPER MFS NOZZLE (RBMD44)

SECTION (1)MFS NOZZLE DEPENDENT VARIABLE CP

MACH (3) = 1.102 ALPHAT(7) = 3.980

X/LNP	.250	.500	.750
PHI			
270.000	-.3650	-.3560	-.3580

MACH (3) = 1.105 ALPHAT(8) = 6.030

X/LNP	.250	.500	.750
PHI			
.000	-.3360	-.3550	
90.000	-.3480	-.3560	-.3540
135.000	-.3520	-.3530	-.3530
180.000	-.3370	-.3480	-.3530
225.000	-.3570	-.3490	-.3540
270.000	-.3560	-.3500	-.3530

MACH (3) = 1.102 ALPHAT(9) = 8.010

X/LNP	.250	.500	.750
PHI			
.000	-.2590	-.2660	
90.000	-.2650	-.2670	-.2650
135.000	-.2660	-.2650	-.2640
180.000	-.2590	-.2640	-.2620
225.000	-.2690	-.2650	-.2630
270.000	-.2680	-.2650	-.2640

MACH (4) = 1.247 ALPHAT(1) = -8.060

X/LNP	.250	.500	.750
PHI			
.000	.0040	-.0050	
90.000	.0000	-.0030	-.0020
135.000	-.0020	-.0070	-.0020
180.000	.1010	.0150	-.0030
225.000	-.0060	-.0090	-.0020
270.000	-.0040	-.0040	-.0040

MACH 4) = 1.250 ALPHAT(2) = -5.960

X/LNP	.250	.500	.750
PHI			
.000	-.0650	-.0720	
90.000	-.0660	-.0680	-.0670
135.000	-.0660	-.0720	-.0680
180.000	.0400	-.0540	-.0660
225.000	-.0690	-.0750	-.0670
270.000	-.0690	-.0710	-.0670

MACH (4) = 1.247 ALPHAT(3) = -3.960

X/LNP	.25[illegible]	.500	.750
PHI			
.000	-.1360	-.1450	
90.000	-.1360	-.1420	-.1410
135.000	-.1380	-.1440	-.1400
180.000	-.1340	-.1380	-.1380
225.000	-.1410	-.143[illegible]	-.141[illegible]

AMES 11-707 IA9 C@A + S3 + T9 UPPER MPS NOZZLE (RB:044)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.247 ALPHAT(3) = -3.960

X/LNP	.250	.500	.750
PHI			
270.000	-.1430	-.1430	-.1410

MACH (4) = 1.248 ALPHAT(4) = -2.[illegible]

X/LNP	.250	.500	.750
PHI			
.000	.0050	.0000	
90.000	.0040	.0030	.0030
135.000	.0060	.0020	.0050
180.000	.0680	.0040	.0050
225.000	.0020	.0030	.0040
270.000	.0010	.0040	.0040

MACH (4) = 1.248 ALPHAT(5) = .020

X/LNP	.250	.500	.750
PHI			
.000	-.0010	-.0080	
90.000	-.0040	-.0050	-.0060
135.000	-.0040	-.0060	-.0050
180.000	.0540	-.0070	-.0040
225.000	-.0050	-.0070	-.0050
270.000	-.0080	-.0060	-.0050

MACH (4) = 1.244 ALPHAT(6) = 2.070

X/LNP	.250	.500	.750
PHI			
.000	-.0330	-.0410	
90.000	-.0390	-.0390	-.0390
135.000	-.0380	-.0380	-.0380
180.000	.0490	-.0390	-.0380
225.000	-.0400	-.0390	-.0370
270.000	-.0400	-.0390	-.0400

MACH (4) = 1.248 ALPHAT(7) = 4.020

X/LNP	.250	.500	.750
PHI			
.000	.0170	.0110	
90.000	.0130	.0110	.0130
135.000	.0130	.0130	.0130
180.000	.0470	.0120	.0140
225.000	.0100	.0130	.0130
270.000	.0110	.0130	.0120

MACH (4) = 1.246 ALPHAT(8) = 6.030

X/LNP	.250	.500	.750
PHI			
.000	-.0190	-.0250	
90.000	-.0230	-.0250	-.0240
135.000	-.0240	-.0220	-.0230
180.000	.0440	-.0240	-.0220
225.000	-.0250	-.0230	-.0220

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AMES 11-7X7 IA9 02A + S3 + T9 UPPER MPS NOZZLE (RBMD44)

SECTION (1)MPS NOZZLE DEPENDENT VARIABLE CP

MACH (4) = 1.246 ALPHAT(8) = 6.030

X/LNP	.250	.500	.750
PHI			
270.000	-.0240	-.0230	-.0230

MACH (4) = 1.246 ALPHAT(9) = 8.010

X/LNP	.250	.500	.750
PHI			
.000	-.1050	-.1110	
90.000	-.1150	-.1100	-.1120
135.000	-.1150	-.1080	-.1120
180.000	-.0970	-.1100	-.1100
225.000	-.1110	-.1110	-.1120
270.000	-.1120	-.1110	-.1130